

Antarctic Sea Ice Atlas National Ice Center 1996





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PREFACE

The National Ice Center (NIC), under sponsorship of the United States Navy, the United States Coast Guard, and the National Oceanic and Atmospheric Administration (NOAA), provides sea ice analyses encompassing the "Arctic" and the "Antarctic". These analyses continue the data set established under our previous name, the Joint Ice Center. These atlases continue the near real-time integration of remotely sensed data and point observations and differ only in that the Arctic and Antarctic are split into two separate publications per hemisphere per year.

This publication is the 11th edition of the annual "Antarctic Sea Ice Atlas"

I his publication is the 11" edition of the annual "Antarctic Sea Ice Atlas" published in hard copy format by the NIC. The atlas contains weekly charts depicting the sea ice extent and coverage in the Southern Hemisphere from the first week of January through December 1996.

The NIC uses a wide variety of data sources in the production of sea ice analyses. Table 1 lists the data sources used to produce the Antarctic weekly ice analyses contained in this publication. The line types used in the analyses provide metadata information with regard to sensor type. Solid lines depict boundaries derived from: point observations, Defense Meteorological Satellite Program Operational Line Scan (DMSP OLS) and NOAA Advanced Very High-Resolution Radiometer (AVHRR) data. Dash-dash-dotted line depicts boundaries derived from DMSP Special Sensor Microwave Imager (SSM/I), and dashed lines depict boundaries derived from forecast models and climatology.

Please direct questions or comments to the NIC Liaison Branch, at phone number (301) 457-5303 extension 311 or 303, facsimile number (301)457-5300, or electronic mail address: <u>liaison@natice.noaa.gov</u>

Atlas addendum: This publication is intended to serve as an interim solution, while transitioning to distribution via CD-ROM. The purpose of this atlas is to make all National Ice Center (NIC) sea ice charts available to customers using NIC designated archive centers. By fall 1999, it is anticipated that NIC will complete and distribute Arctic/Antarctic ice atlases on CD-ROM for 1995, 1996, 1997 and 1997 and 1998. It should be noted that the charts presented in this atlas have been drawn by hand for operational use. Corrections to "hand annotations" are visible on some of the charts in the atlas.

age	lε	Ε	E				_
Covera	3,012km	3,012km	4,000km				
Resolution Coverage	0.55 km	25 km	1.1km at	nadir;	2.5km at	swath	
Spectral Region		0.4 to 1.1 μm 10.2 to 12.8 μm 19.35 and 37GHz			0.58 to 0.68 µm	0.72 to 1.10 µm	
Sensor and	_	IR SSM/I	<u>AVHRR:</u>	HRPT/LAC	NIS	NR.	٥
	01-96 12-96 DMSP	F-10, 11, 12, 13	NOAA	12, 14			
P_	12-96		01-96 12-96 NOAA				
From	01-96		01-96				

TABLE 1. 1996 Antarctic Satellite Data Sources

Abbreviations and Acronyms:

AVHRR- Advanced Very High Resolution Radiometer cm- centimeter

GHz- GigaHertz

HRPT- High Resolution Picture transmission

R- Infrared

km- kilometer

AC- Local Area Coverage

NIR- Near Infrared

OLS- Operational Linescan System

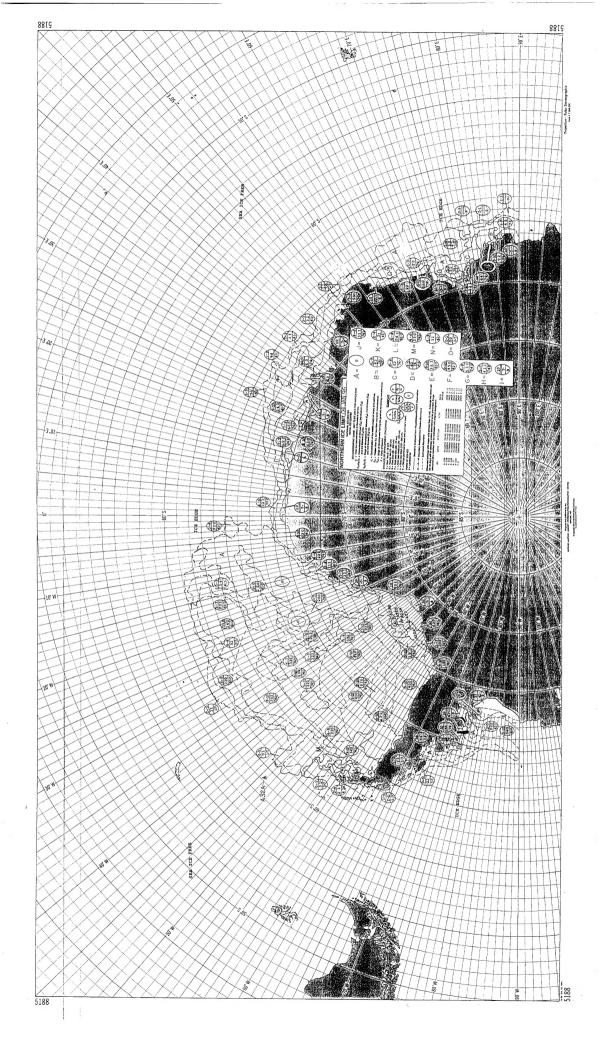
SSM/I- Special Sensor Microwave Imager

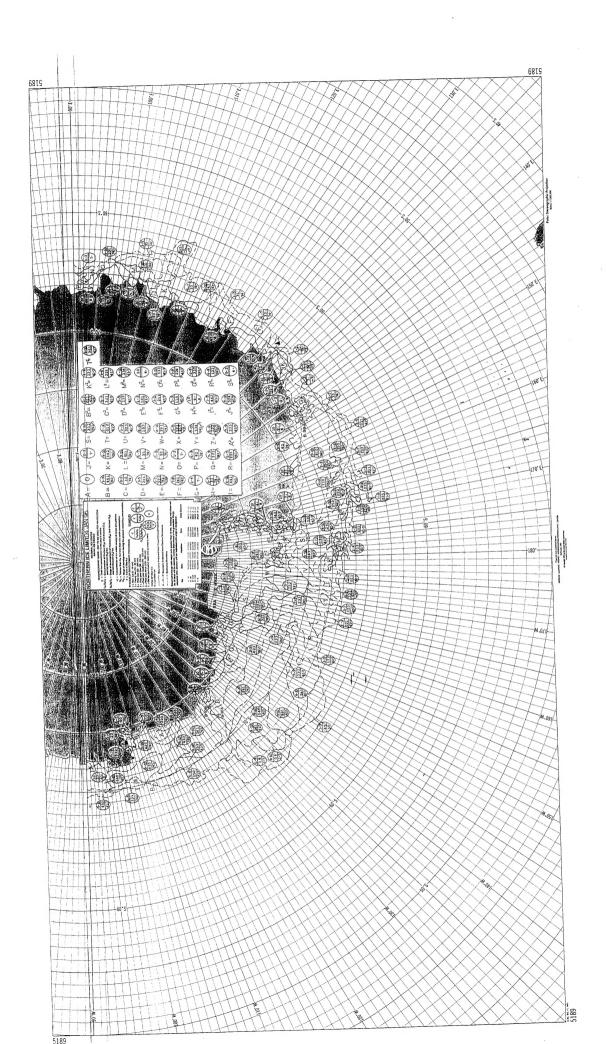
um- micrometer

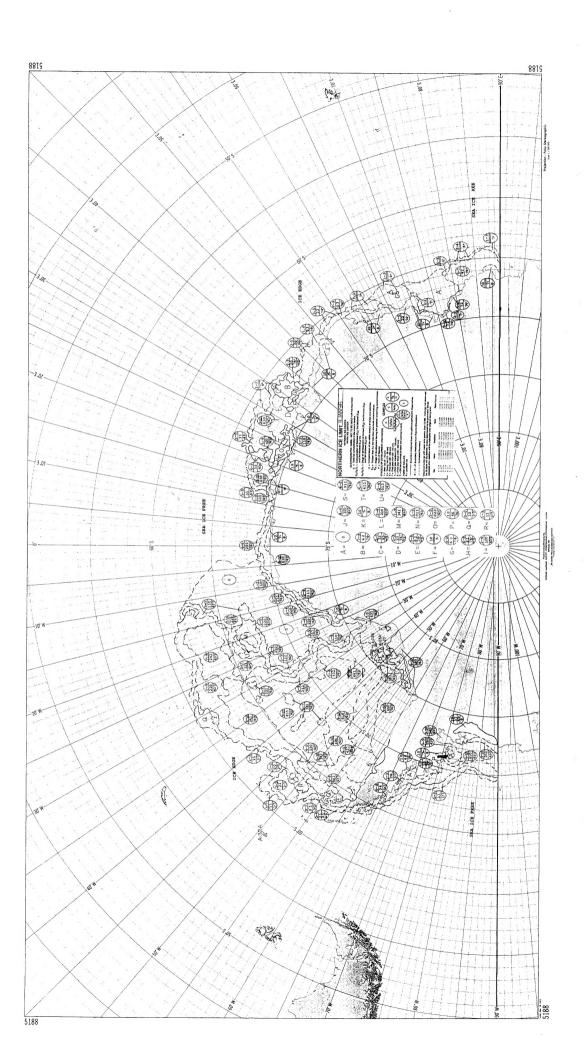
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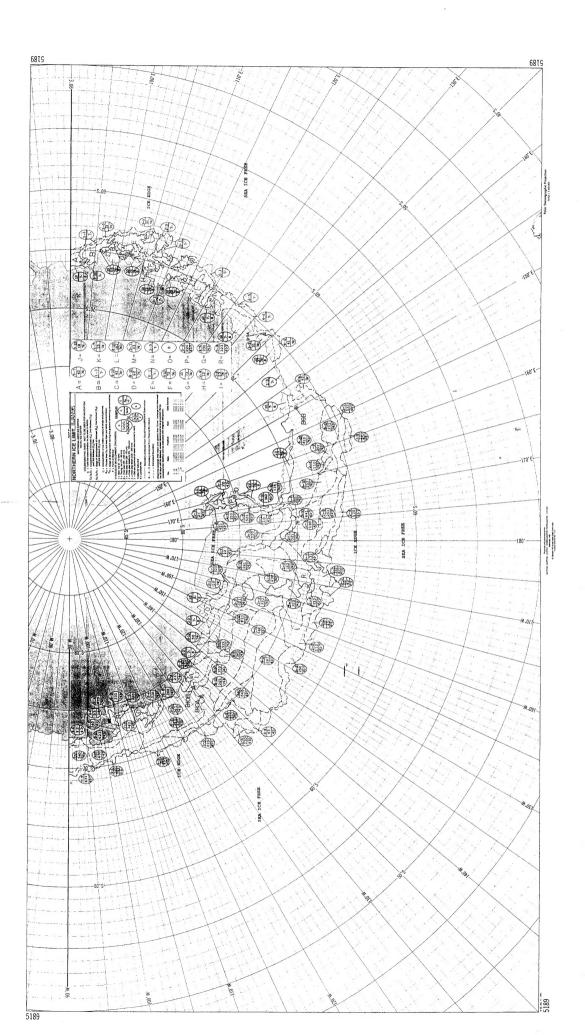
Antarctica satellite composite courtesy of United States Geological Survey,

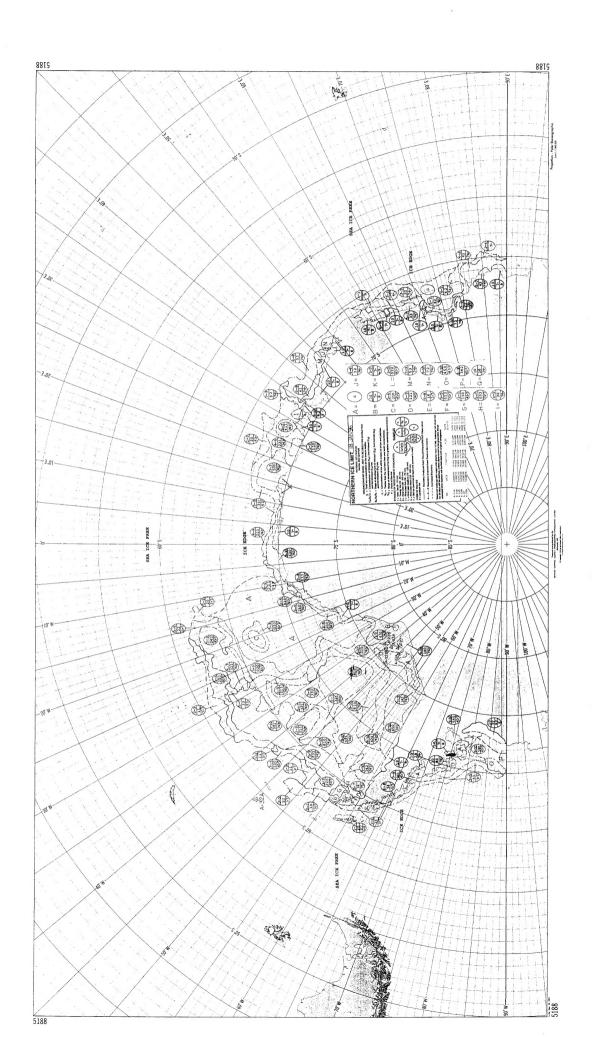
Flagstaff, AZ. (http://TerraWeb.wr.usgs.gov/TRS/projects/Antarctica/color/images) Prepared under the authority of Commander, Naval Oceanography Command, Stennis Space Center, MS 39529-5000

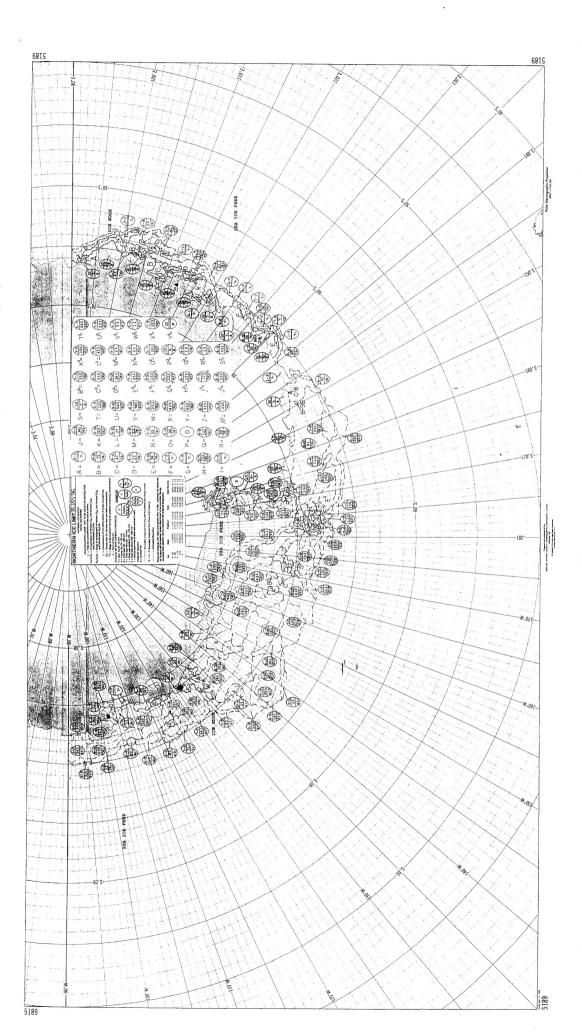


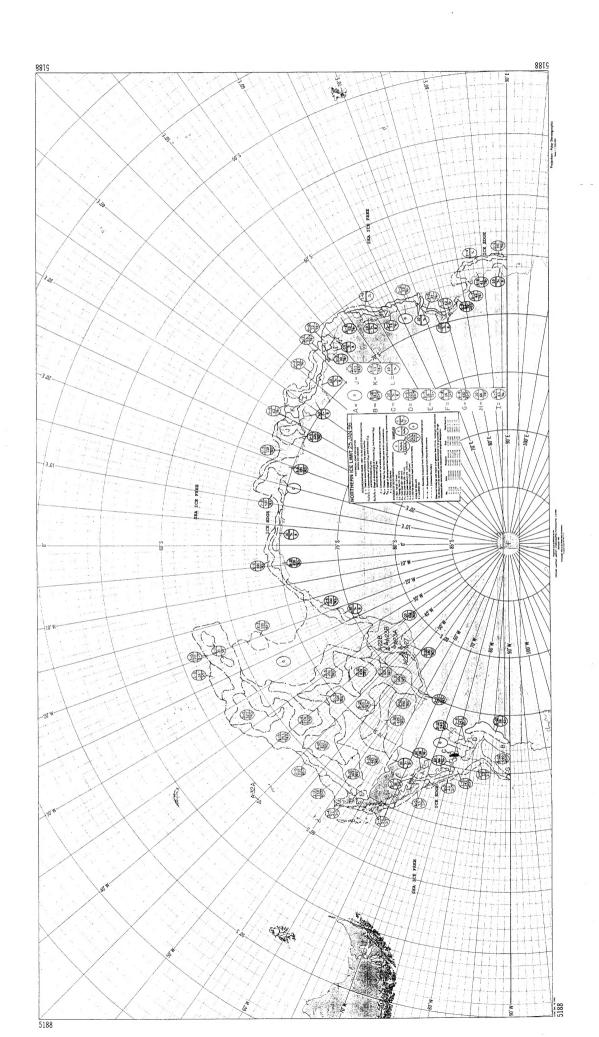


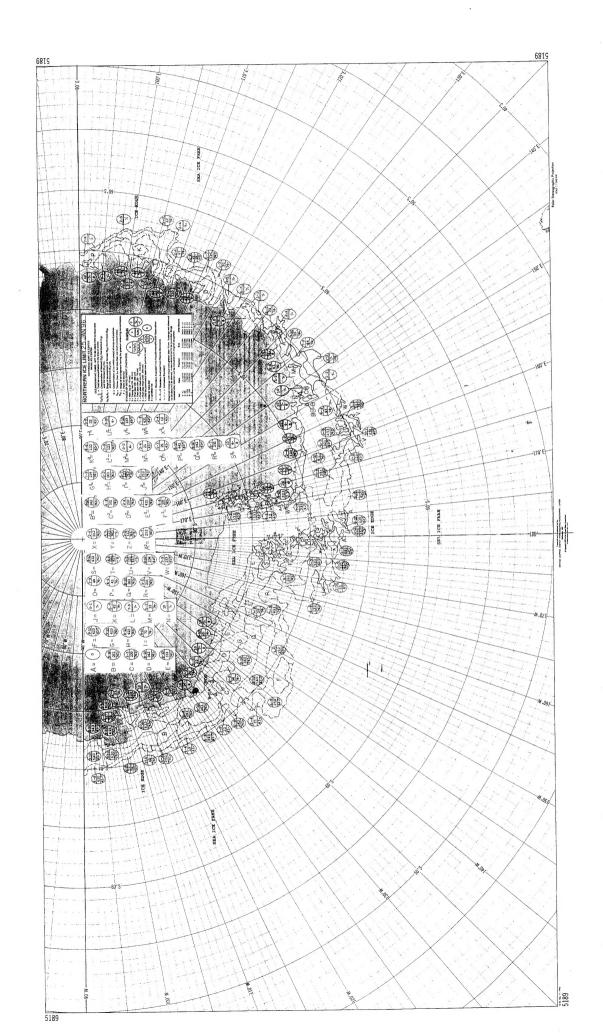


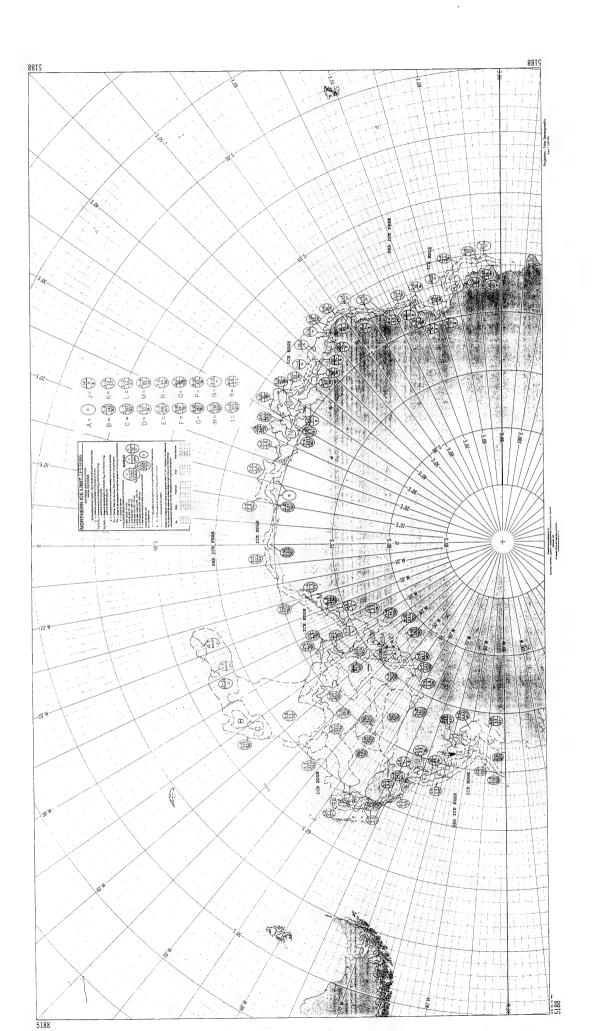


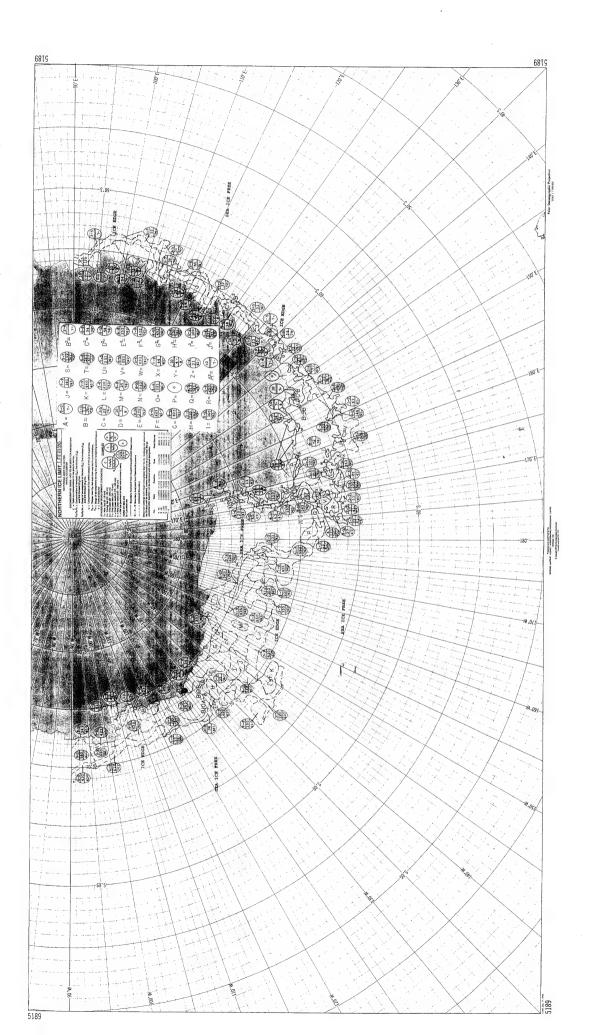


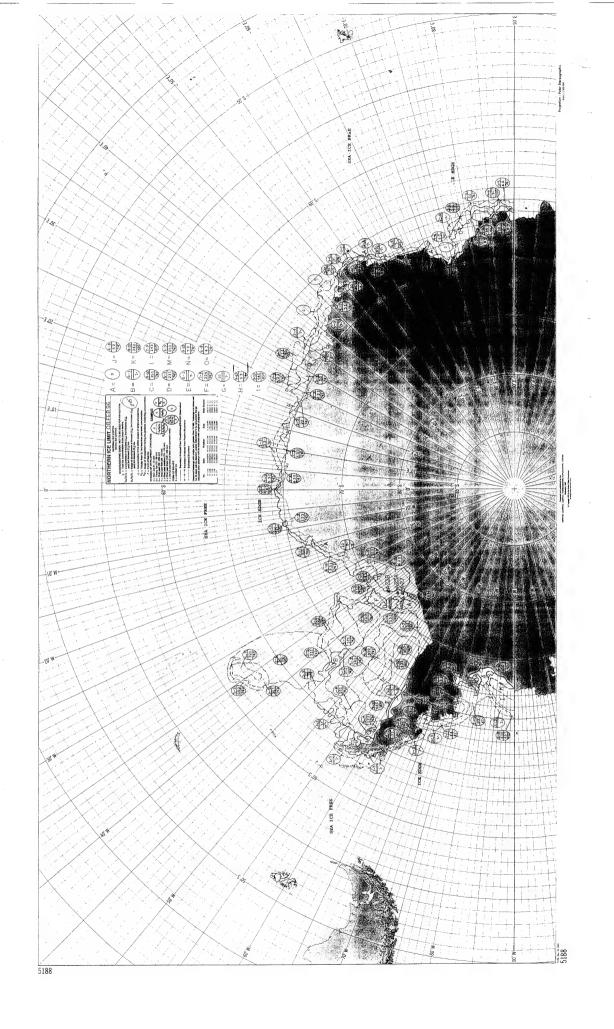


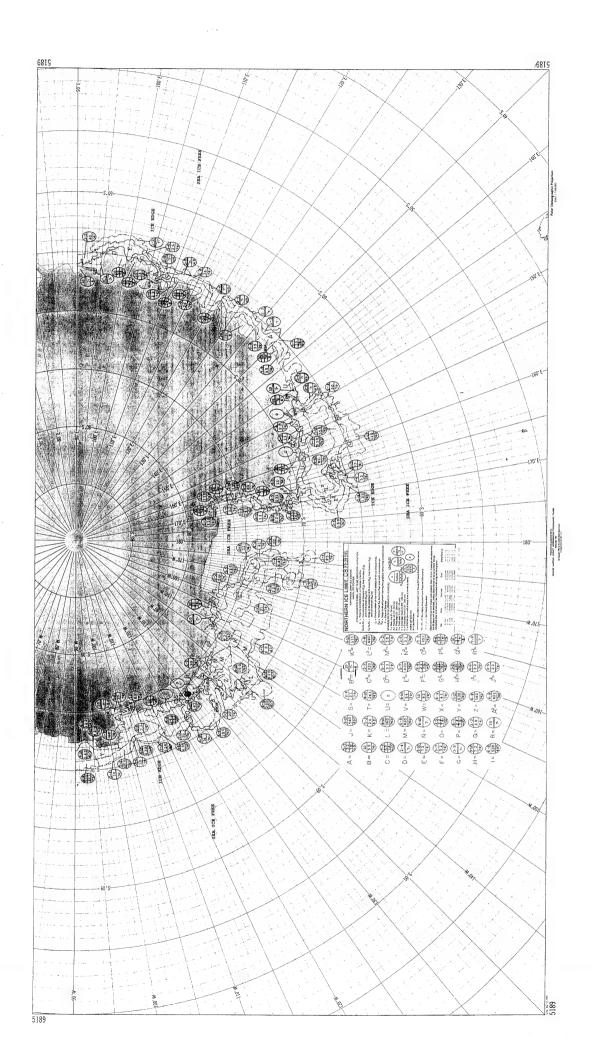


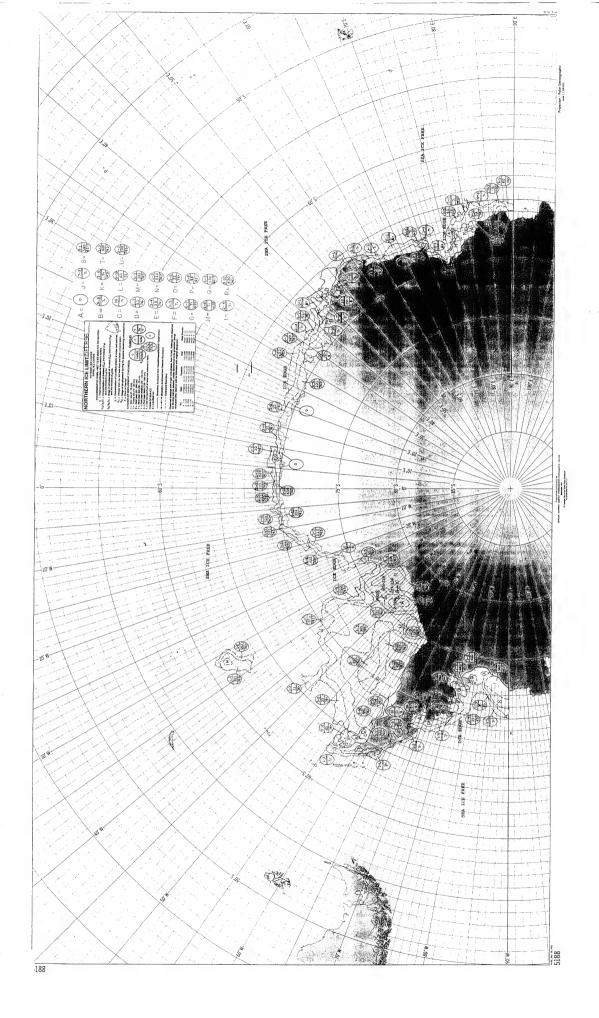


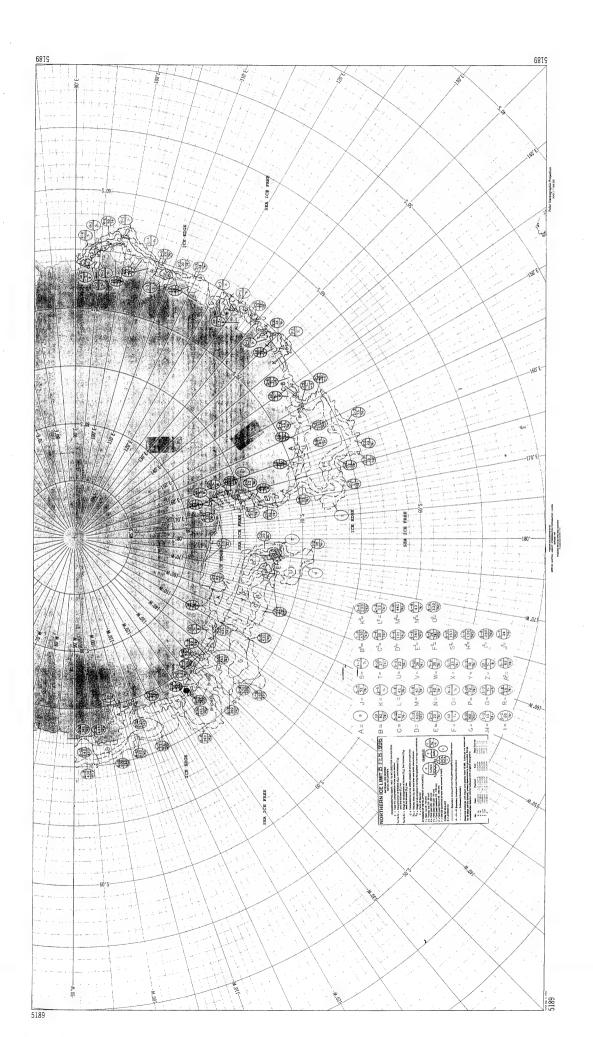


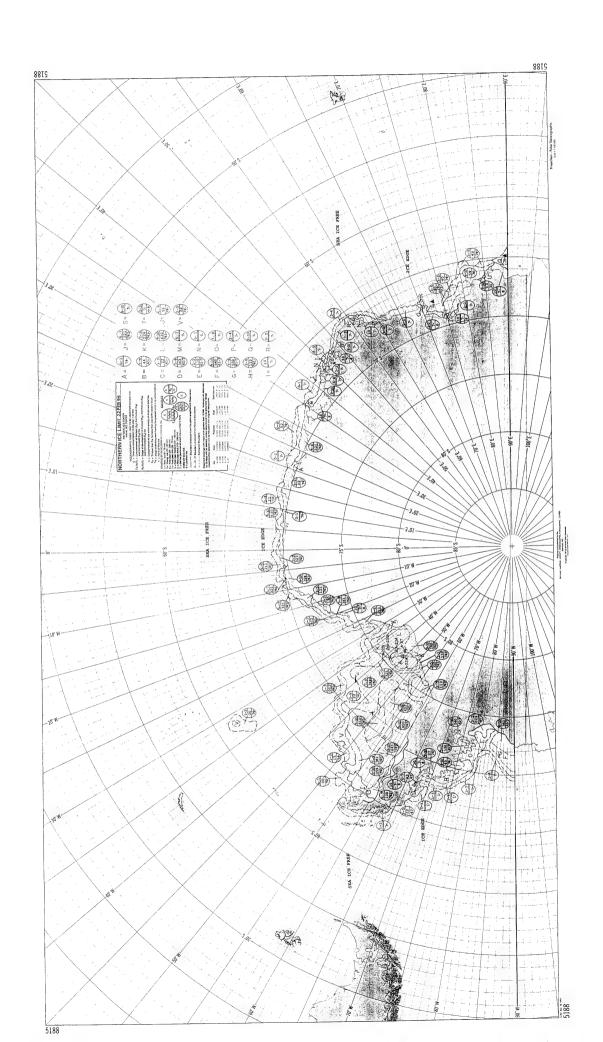


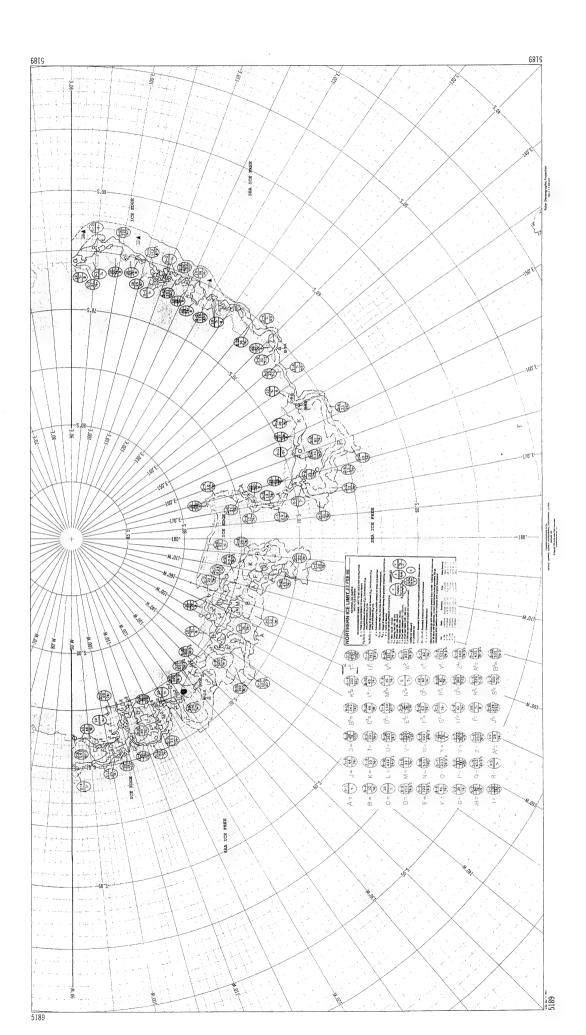


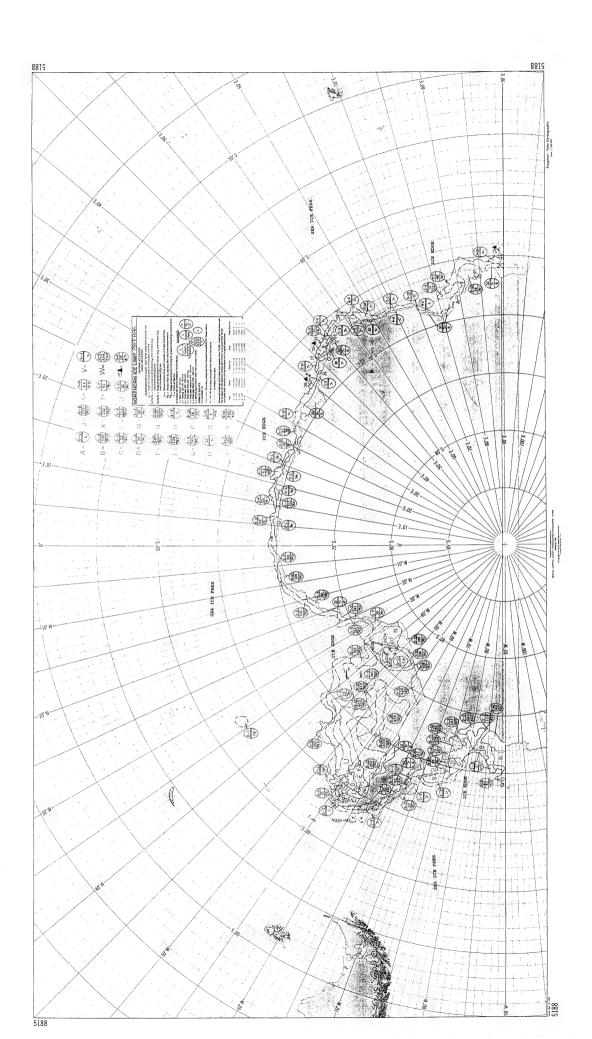


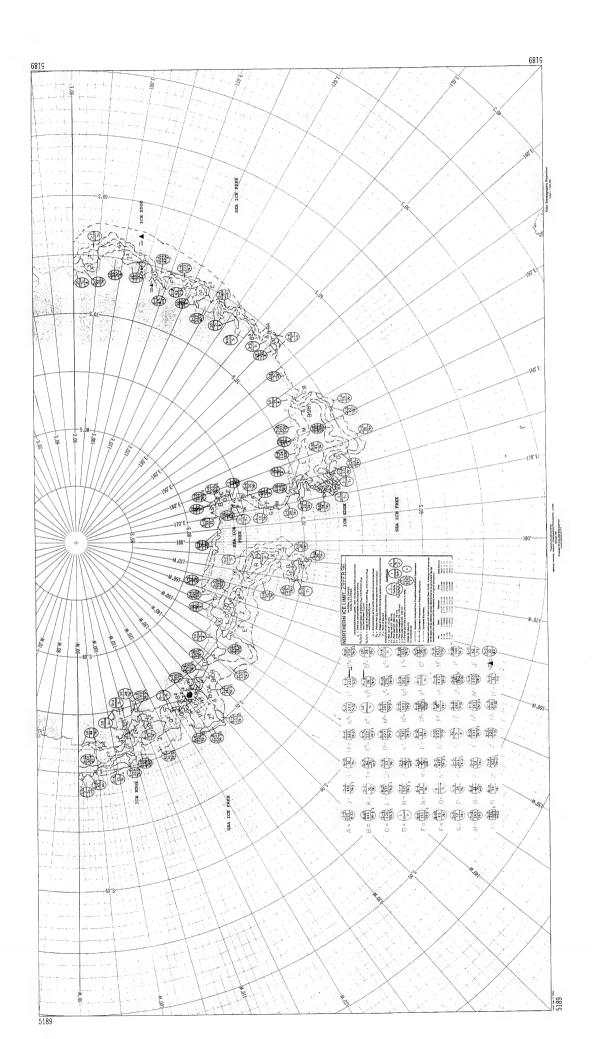


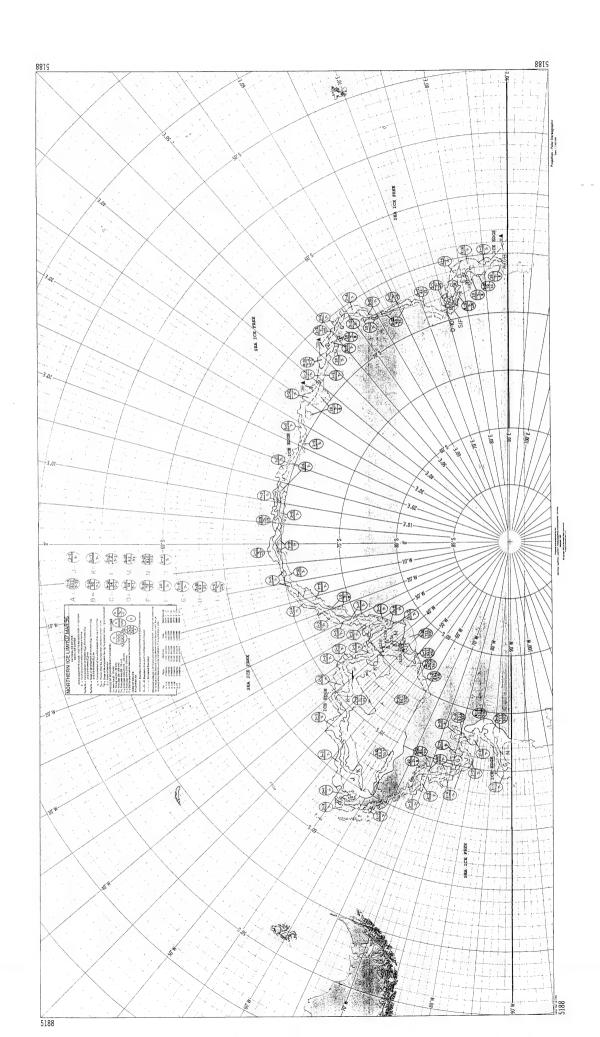


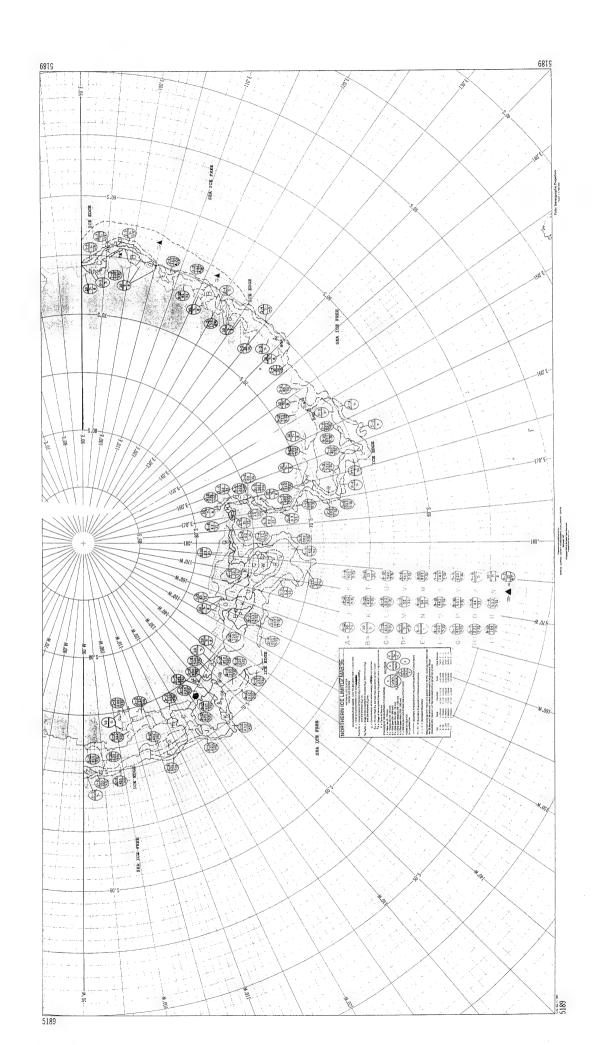


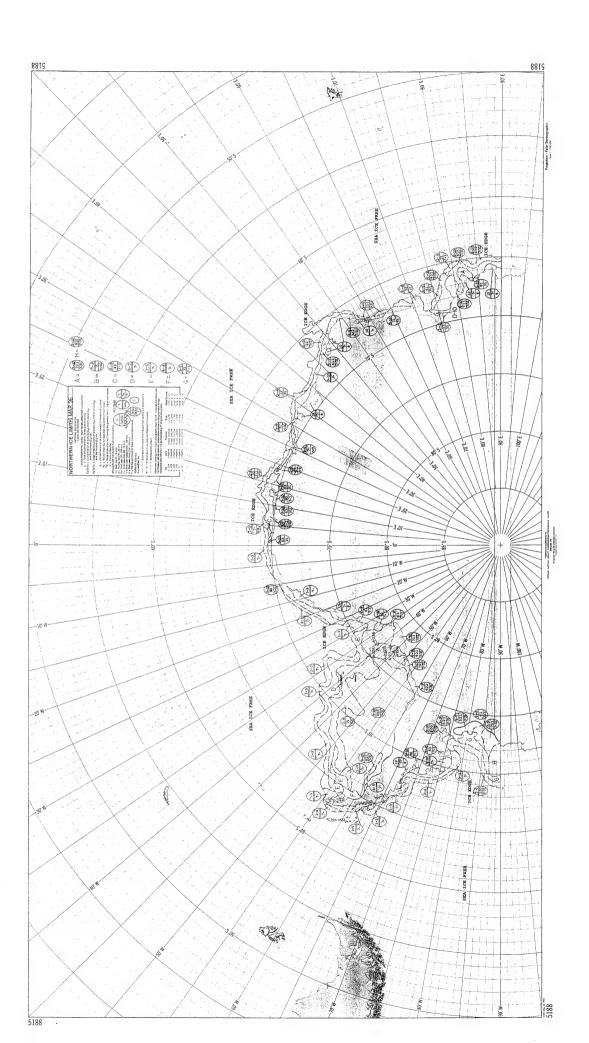


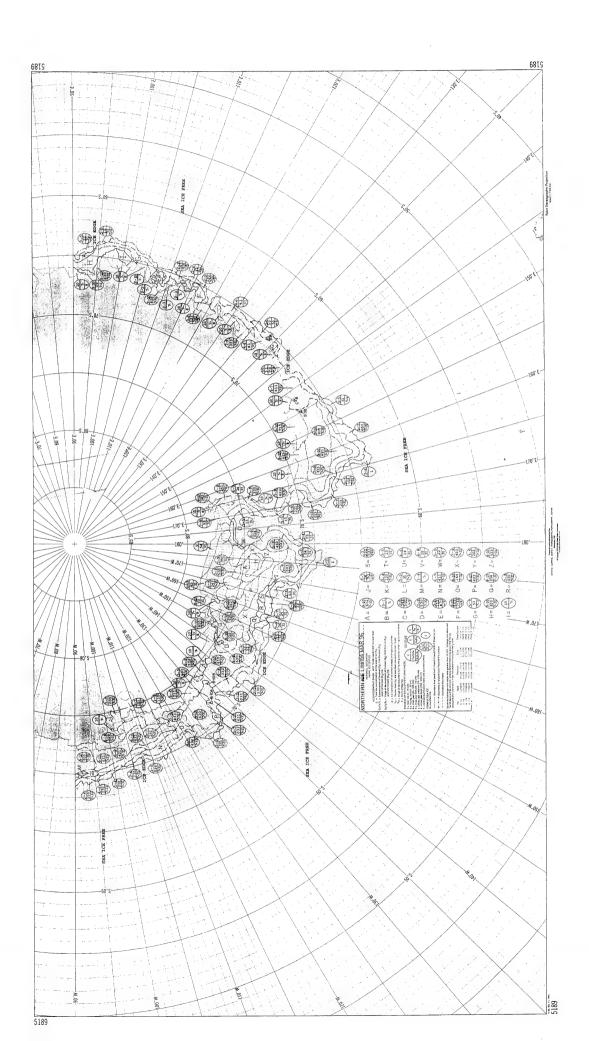


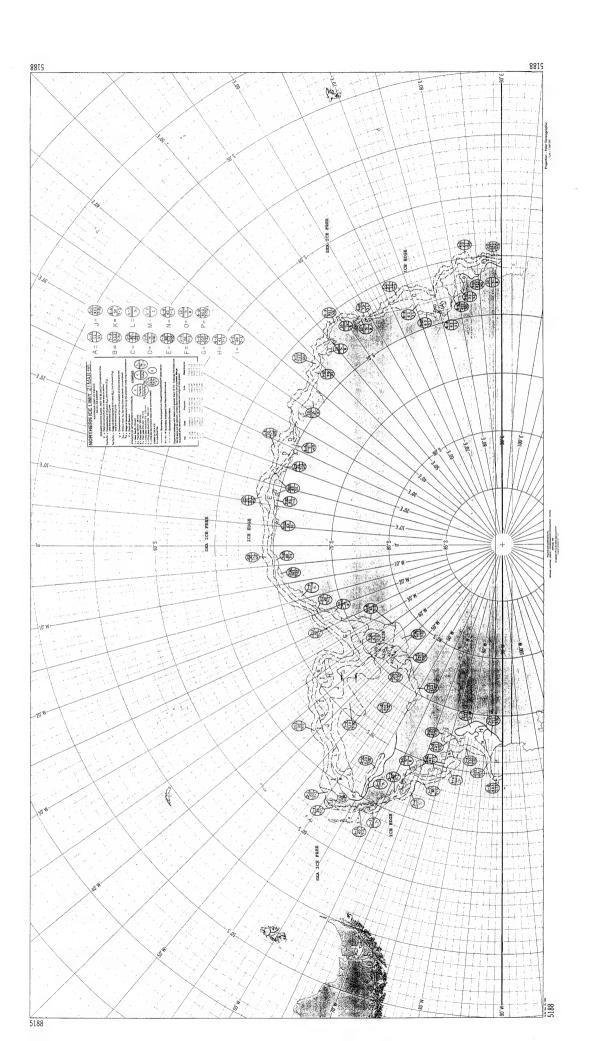


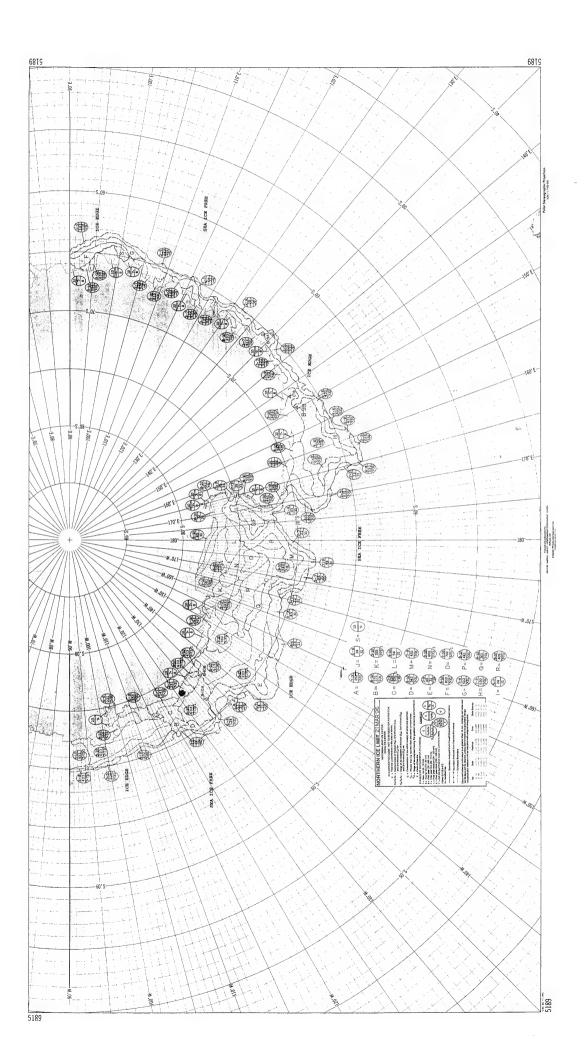


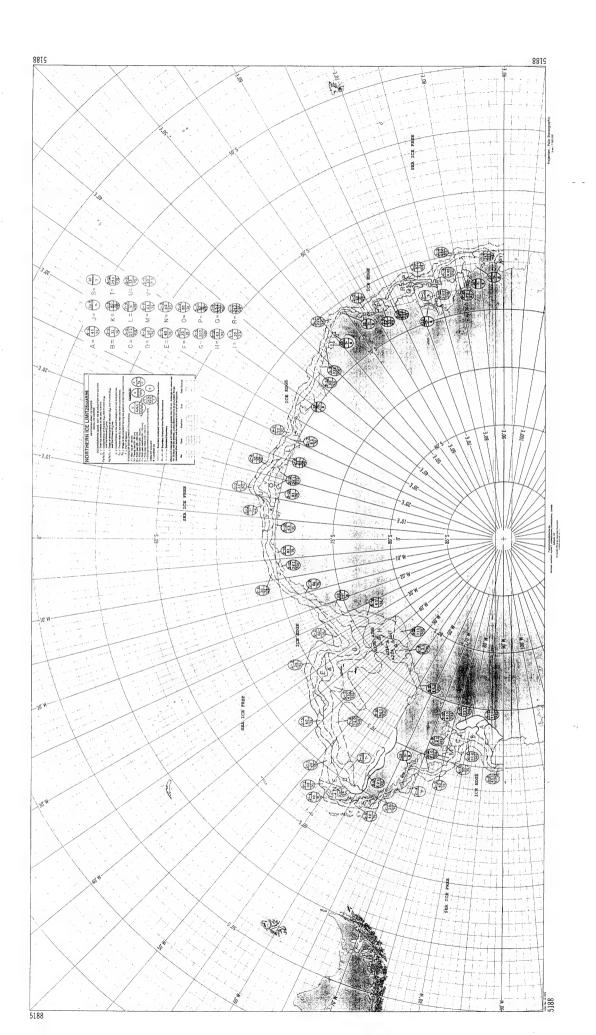


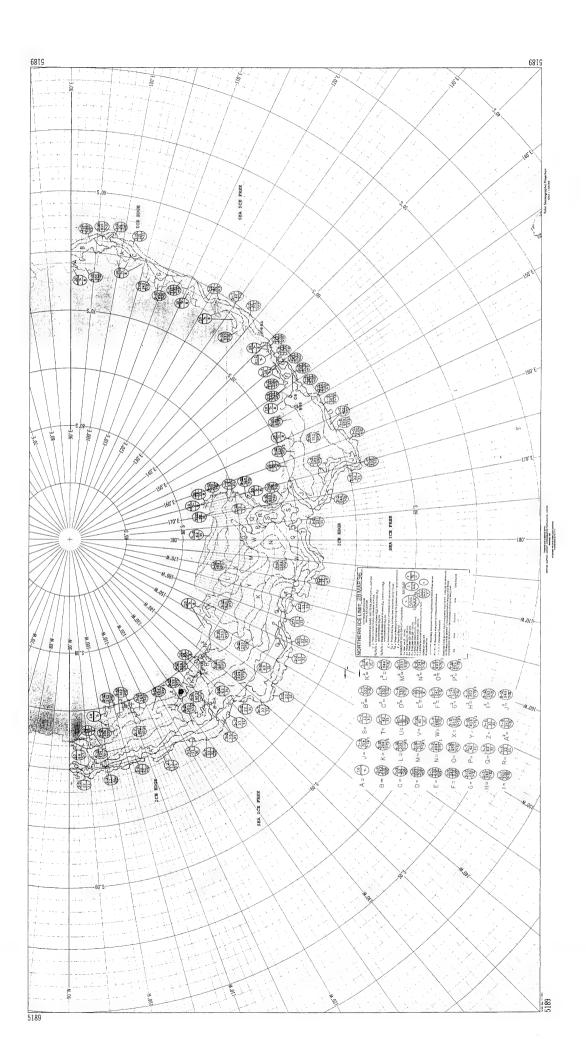


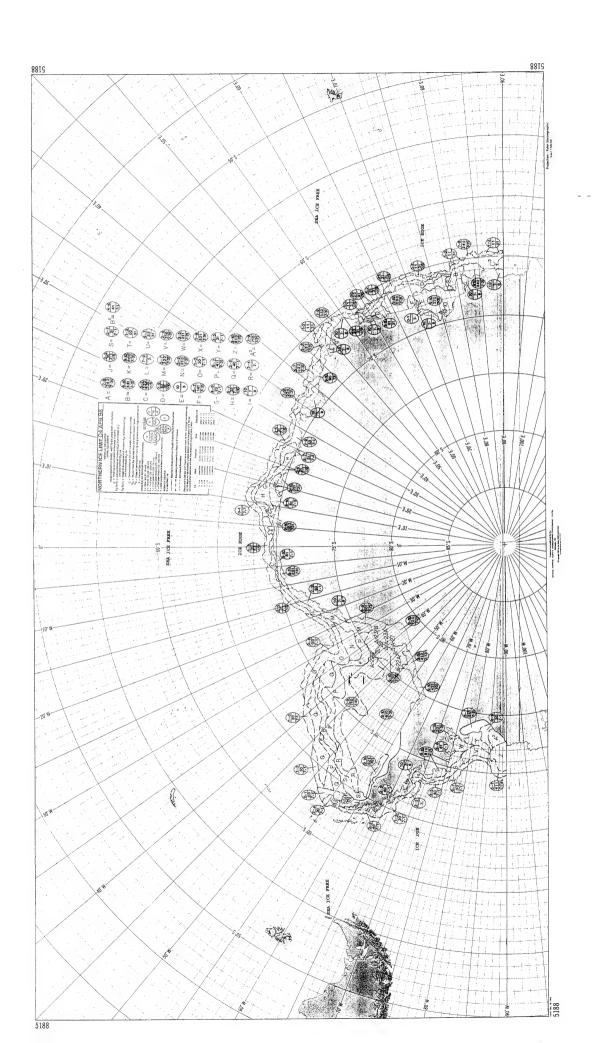


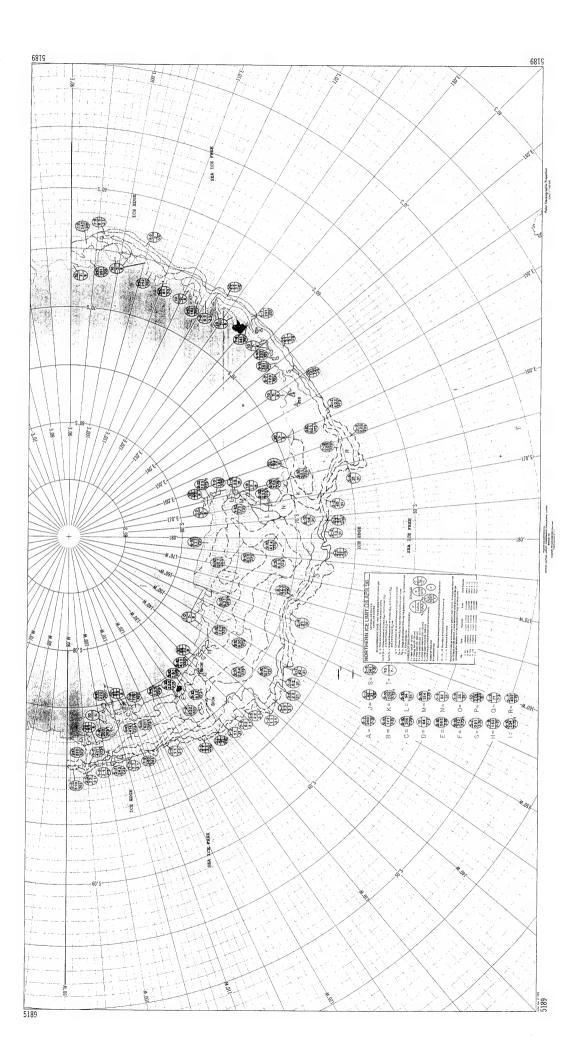


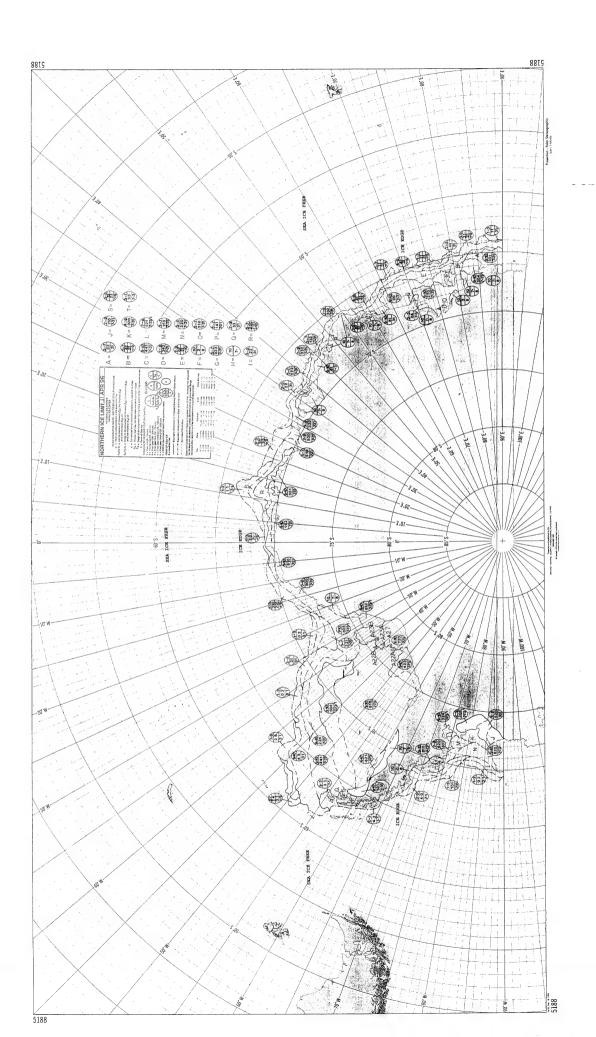


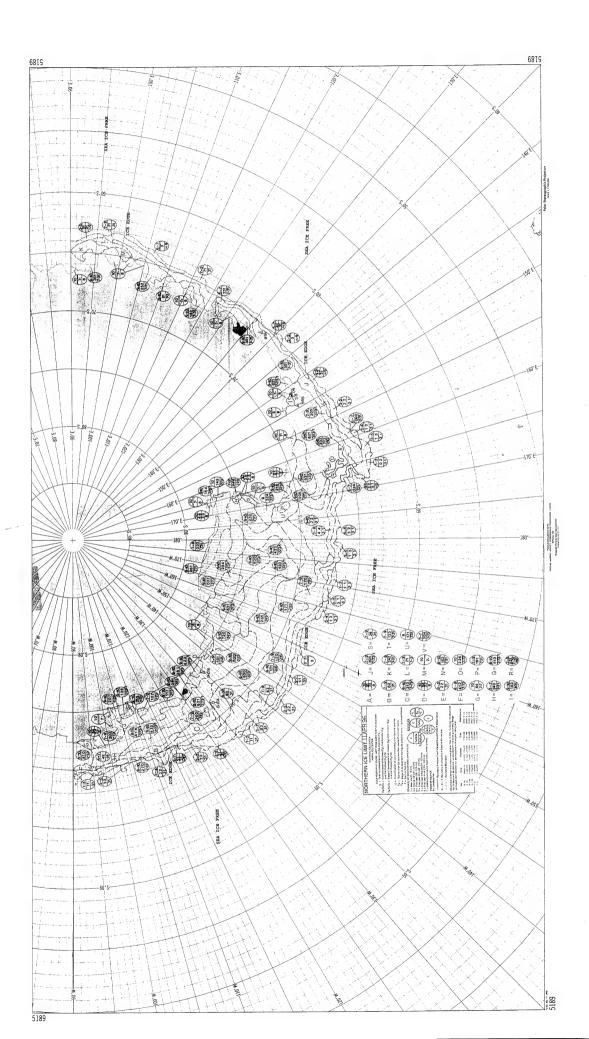


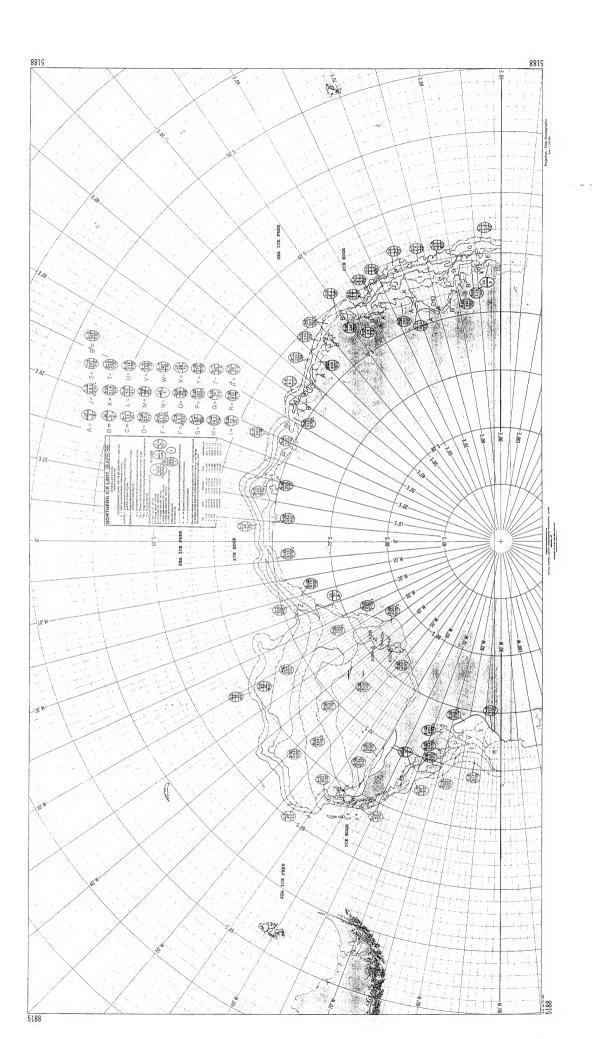


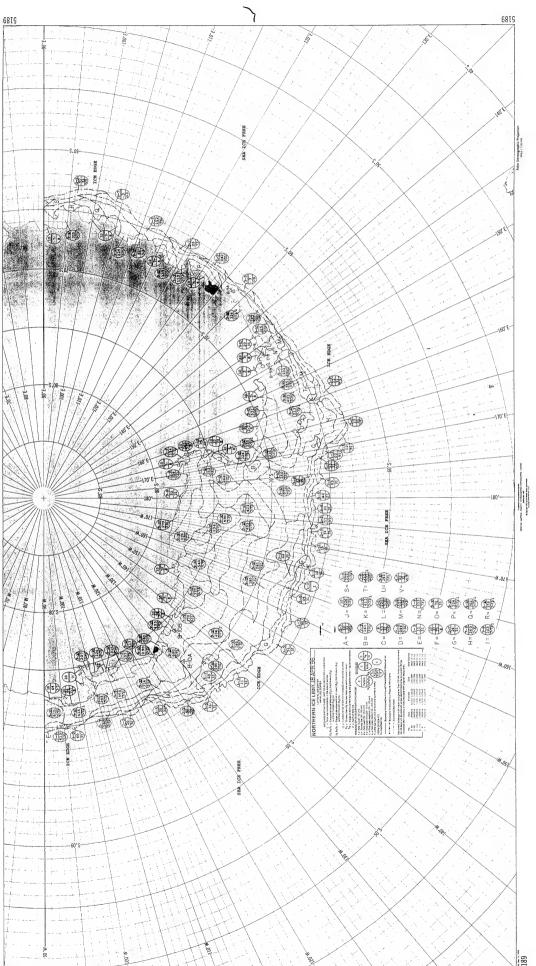










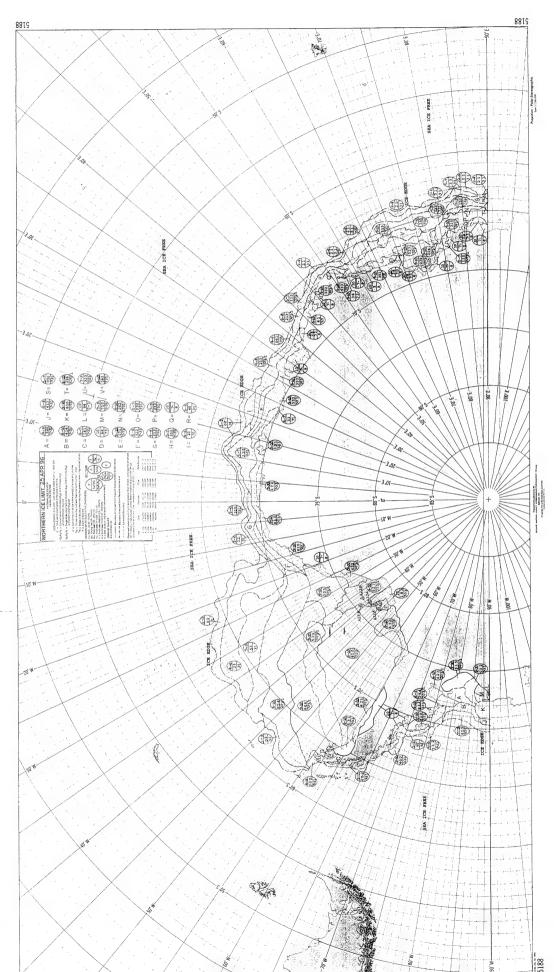


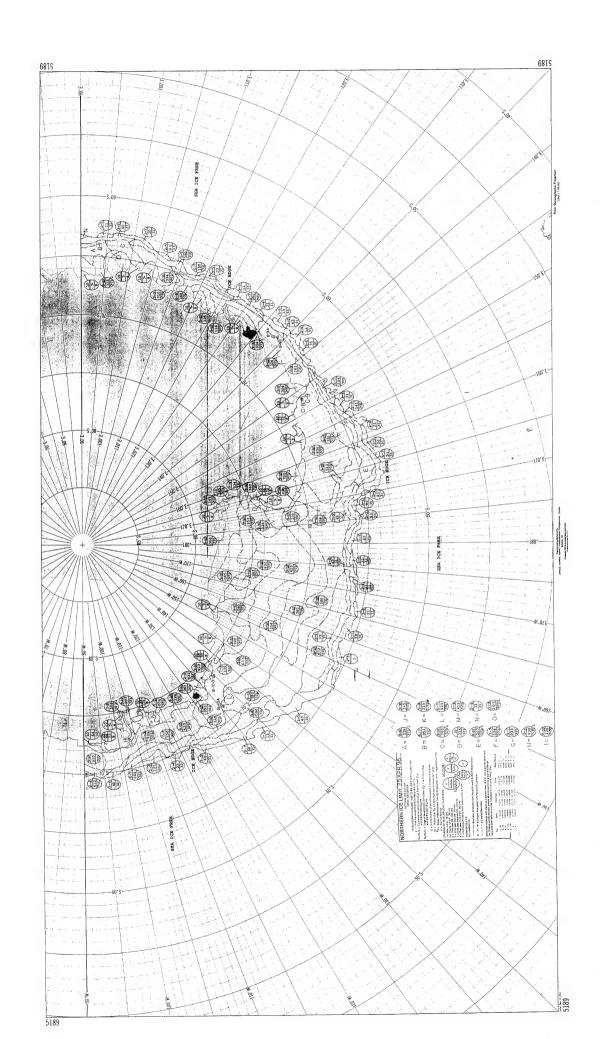
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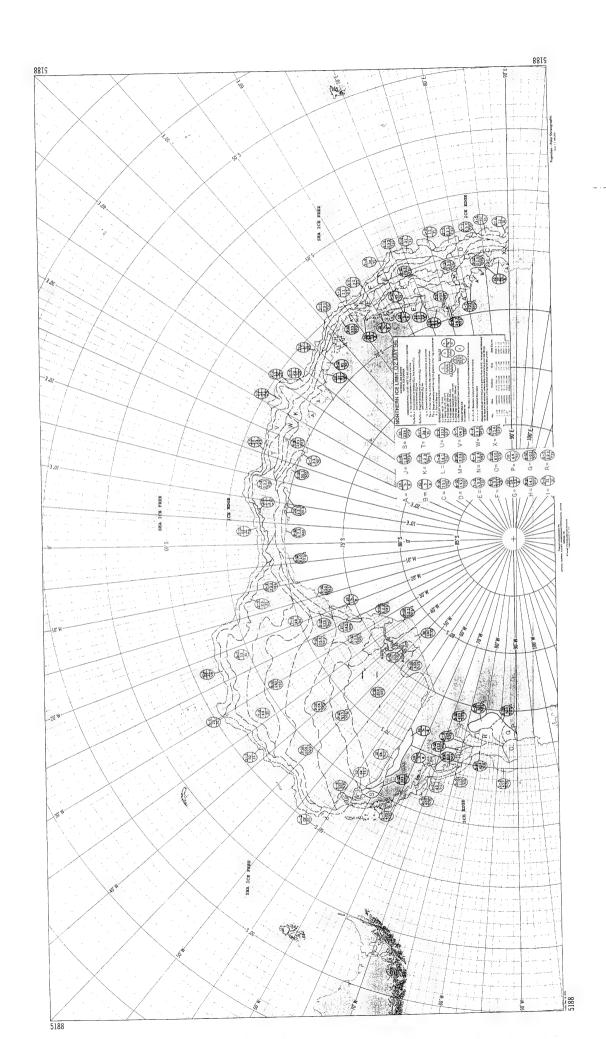
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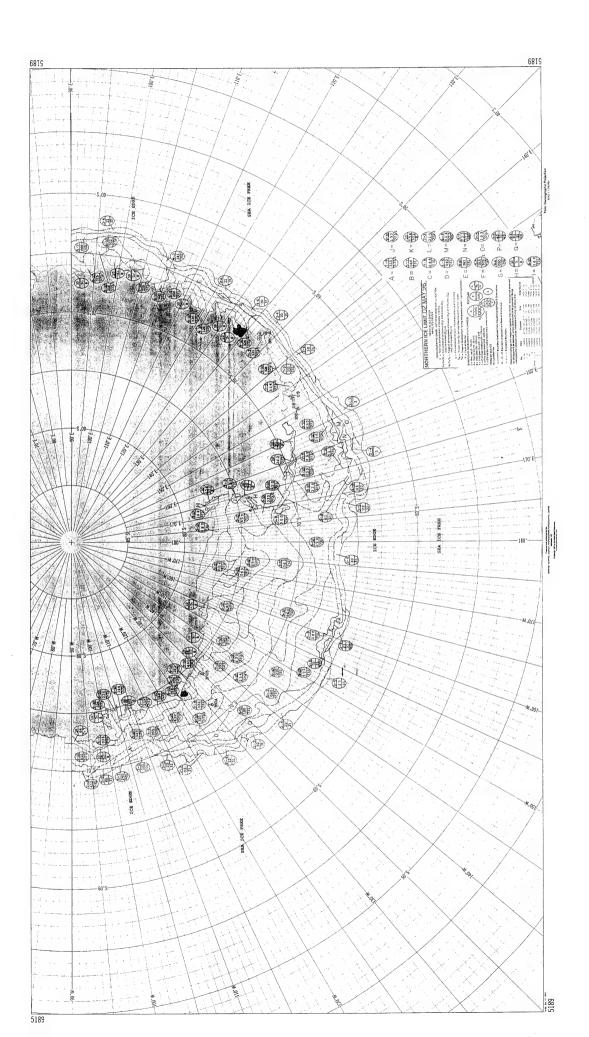
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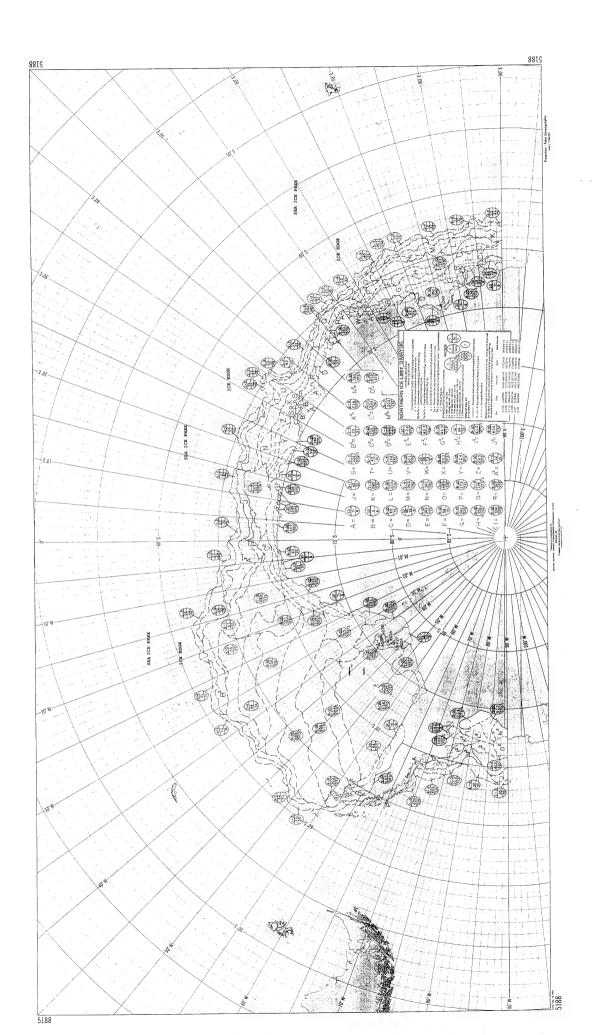
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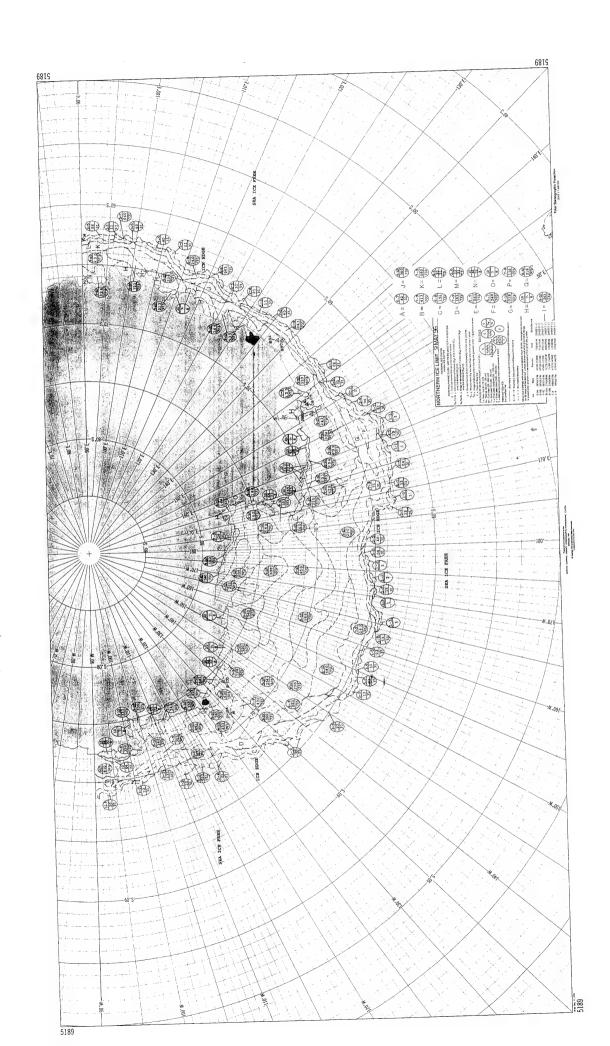


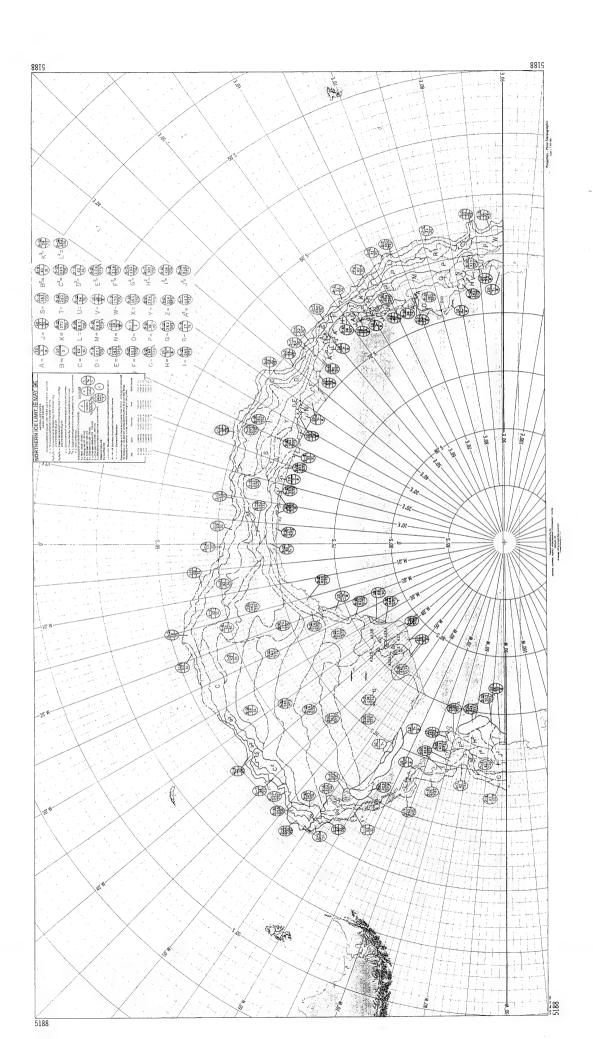


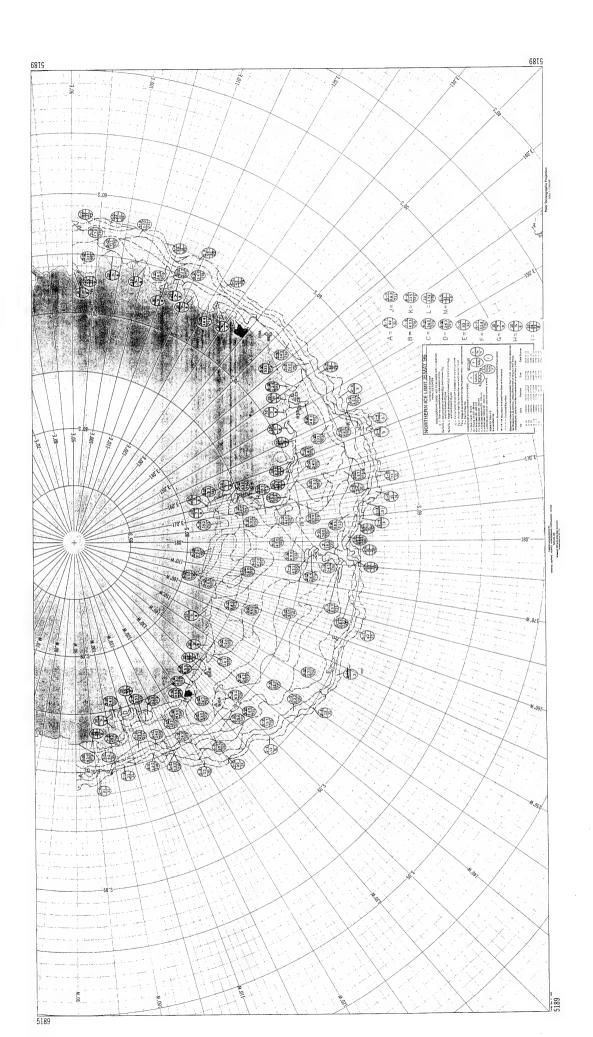


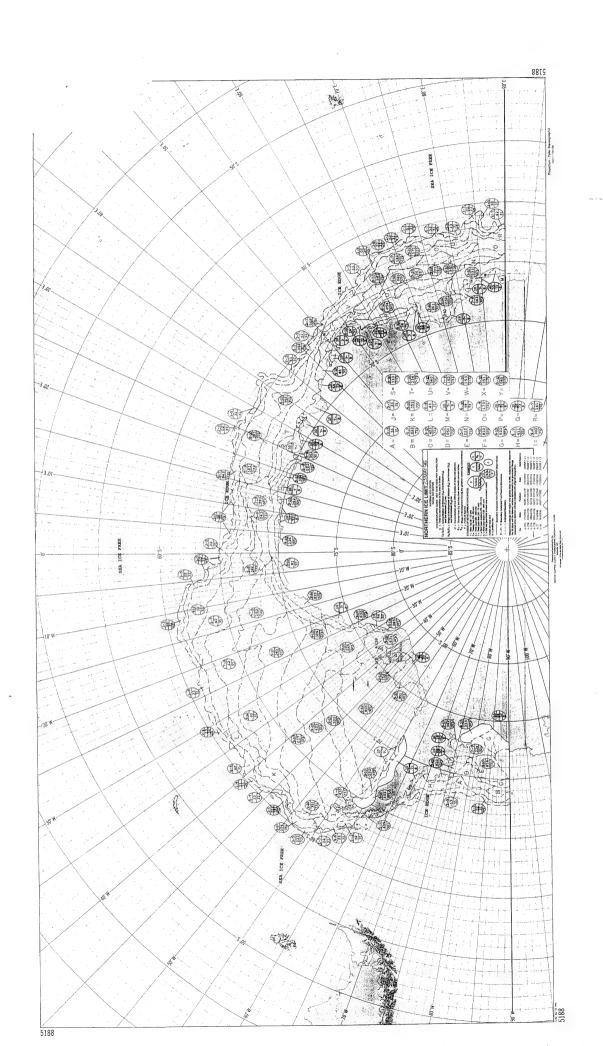


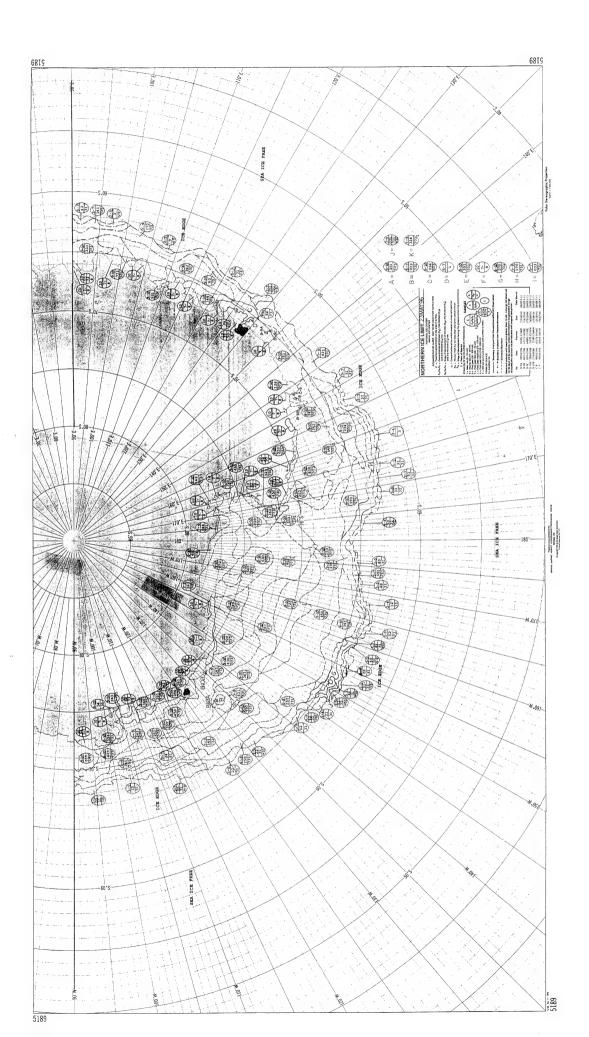


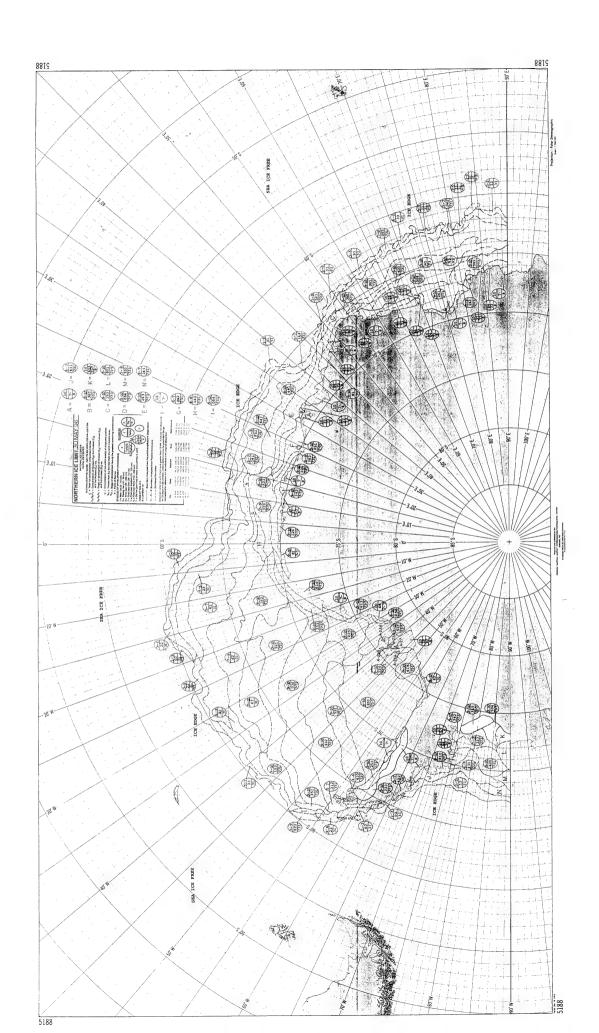


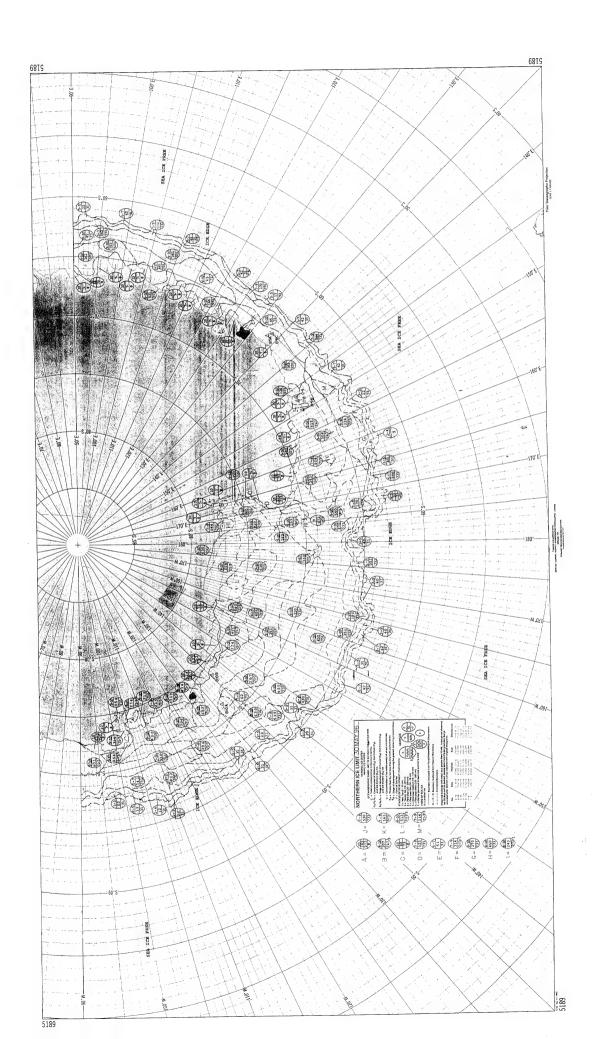


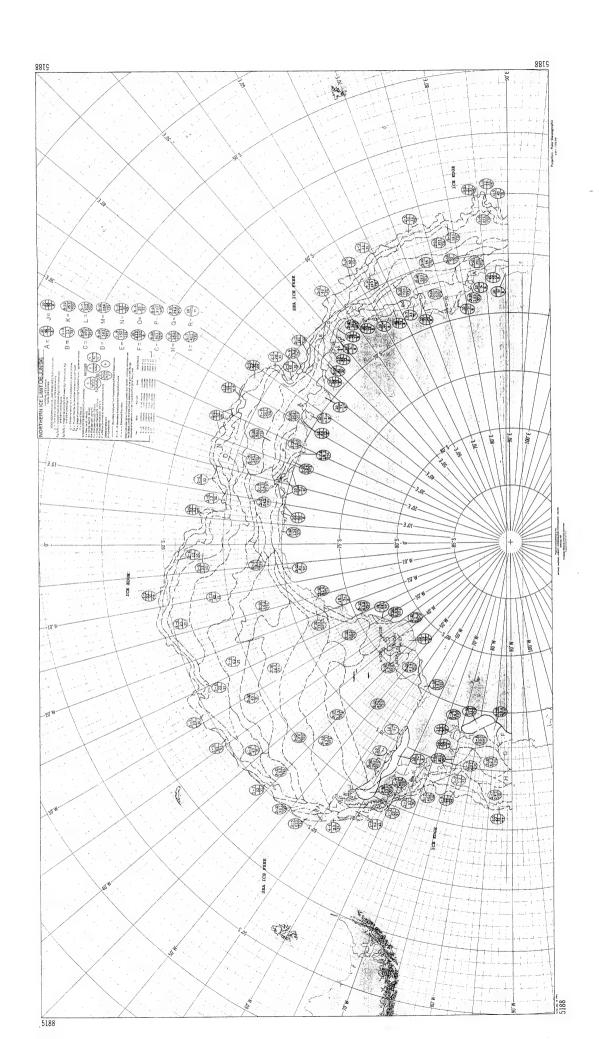


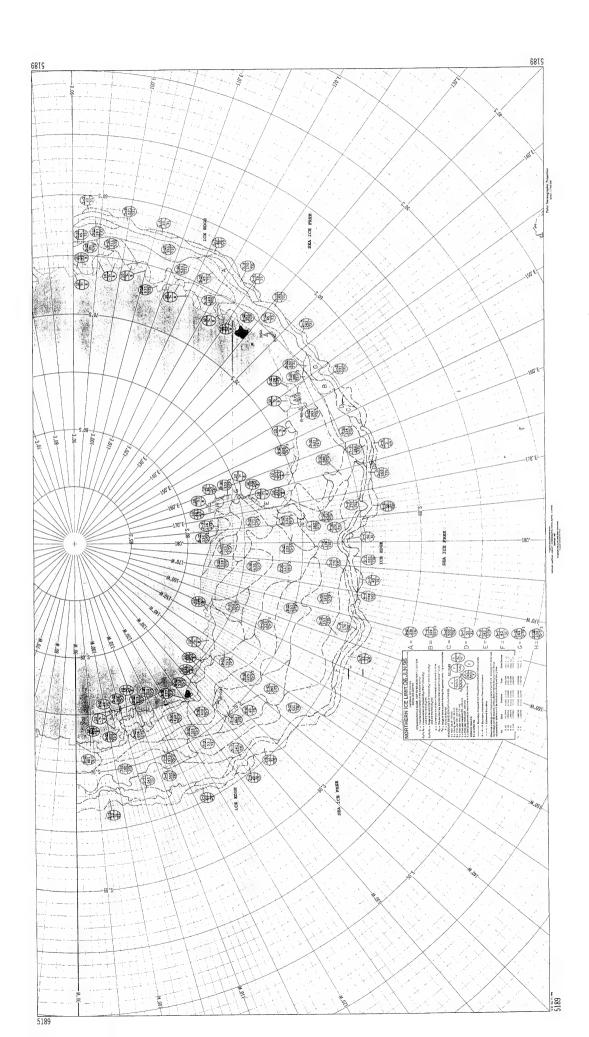


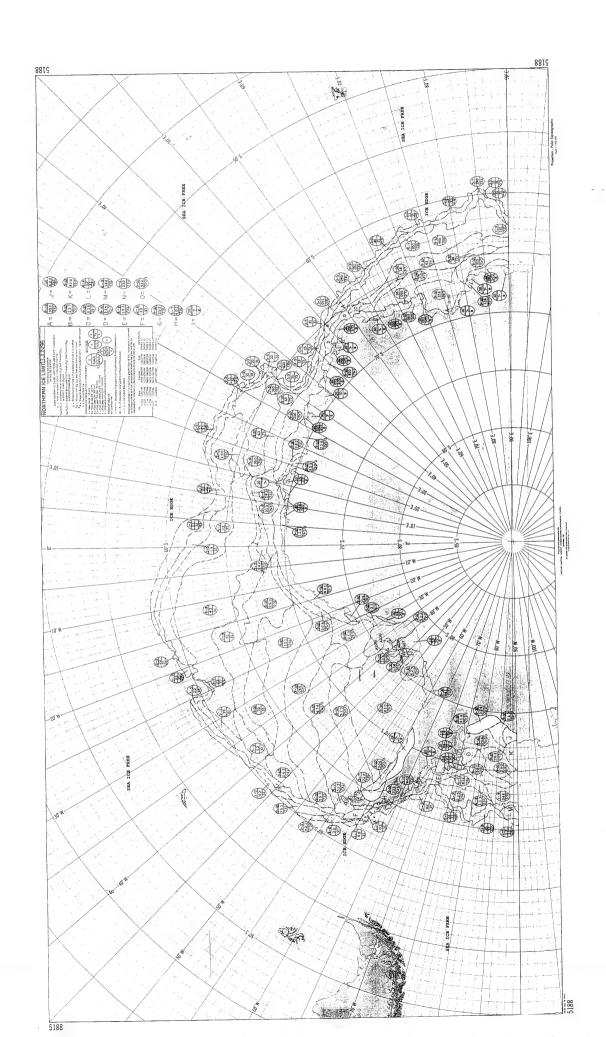


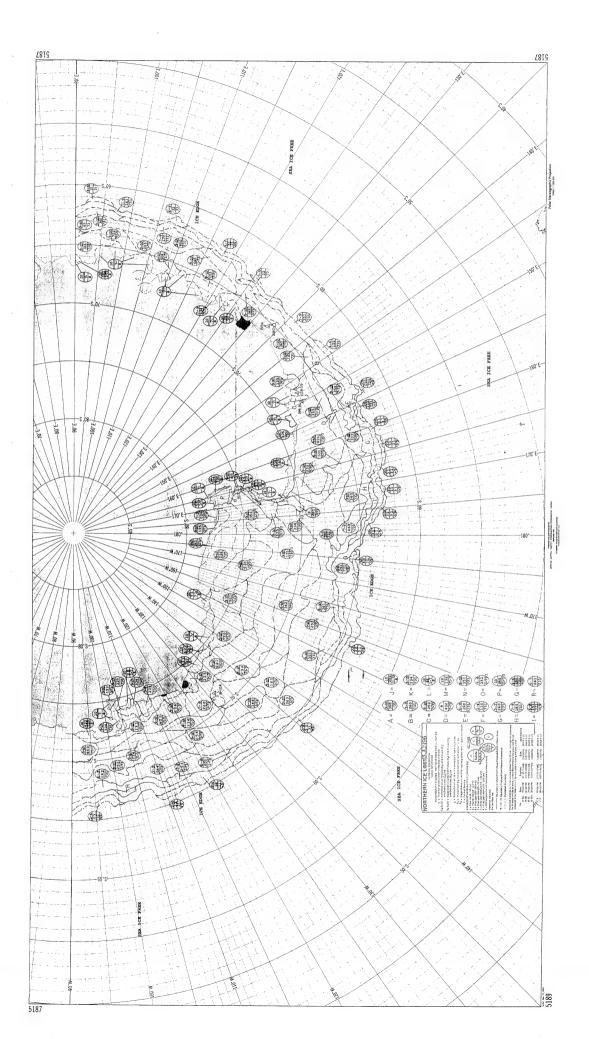


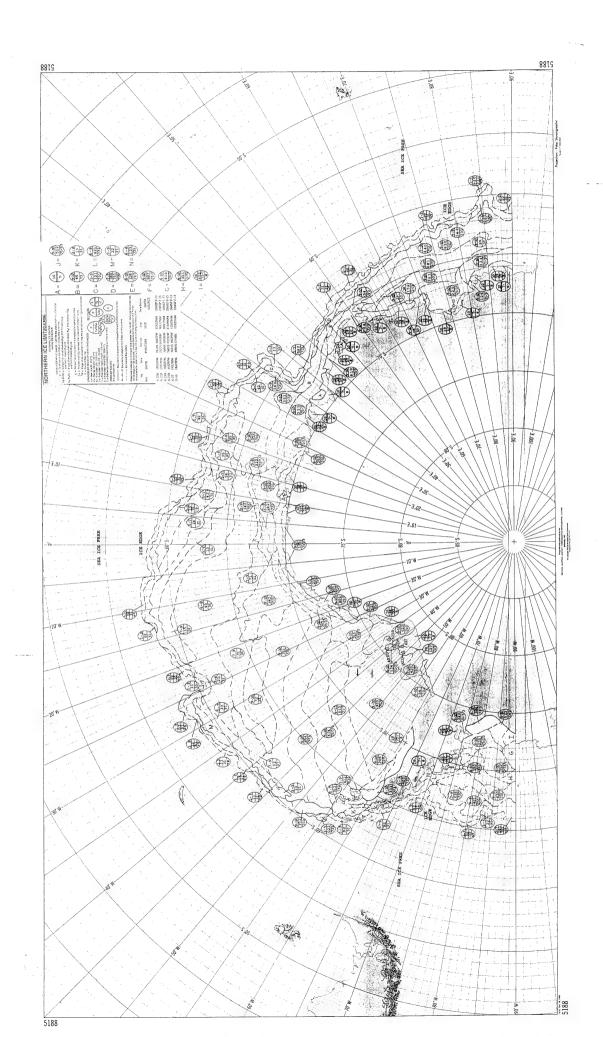


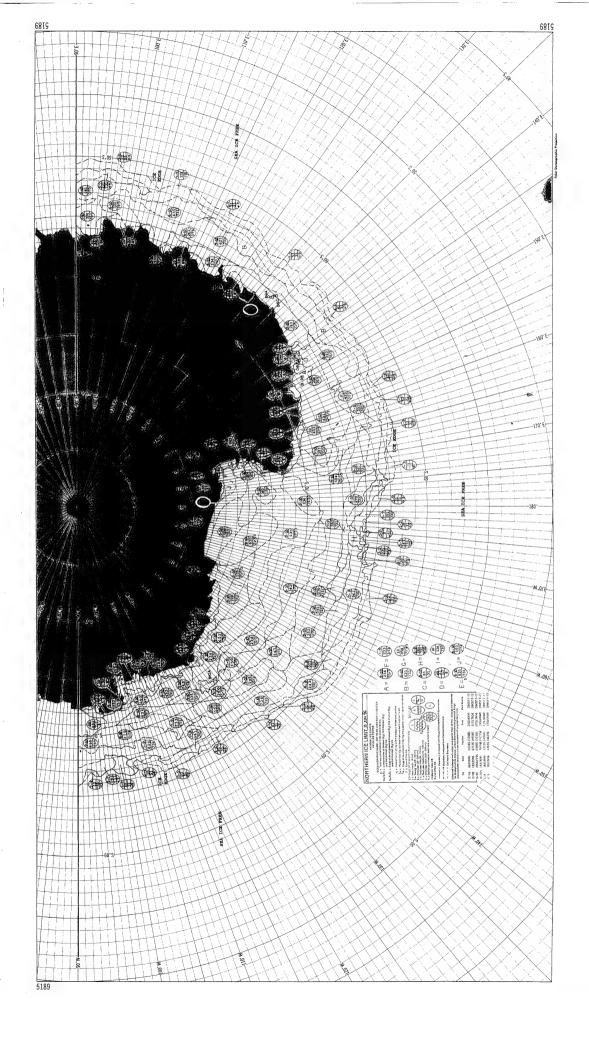


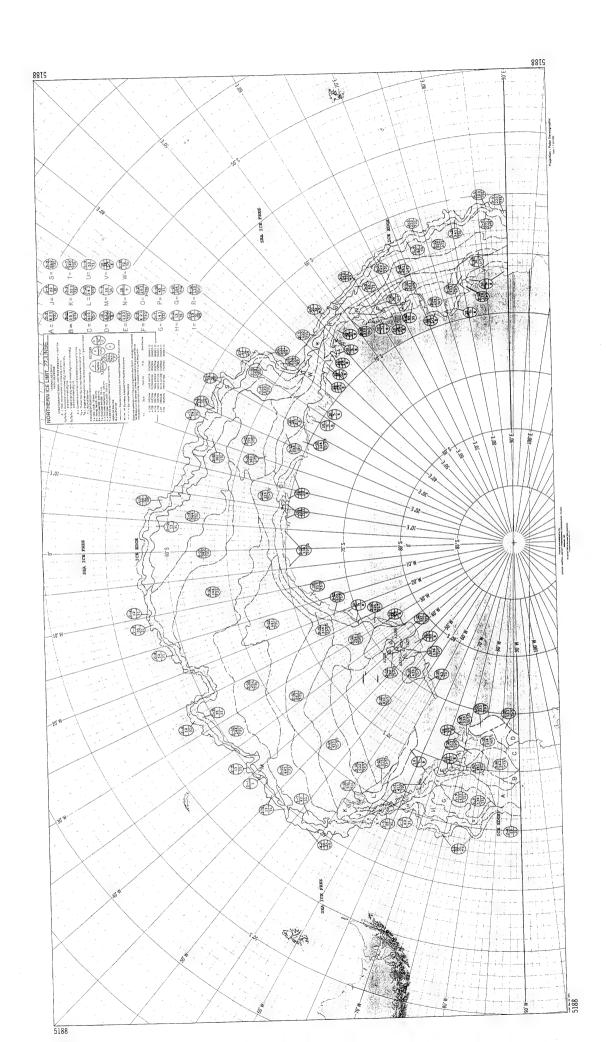


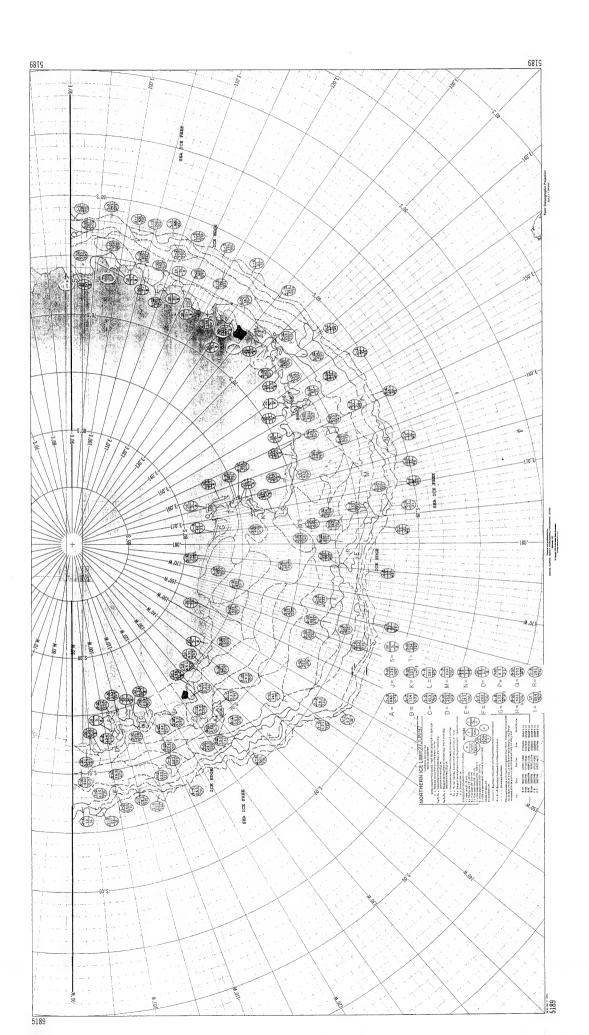


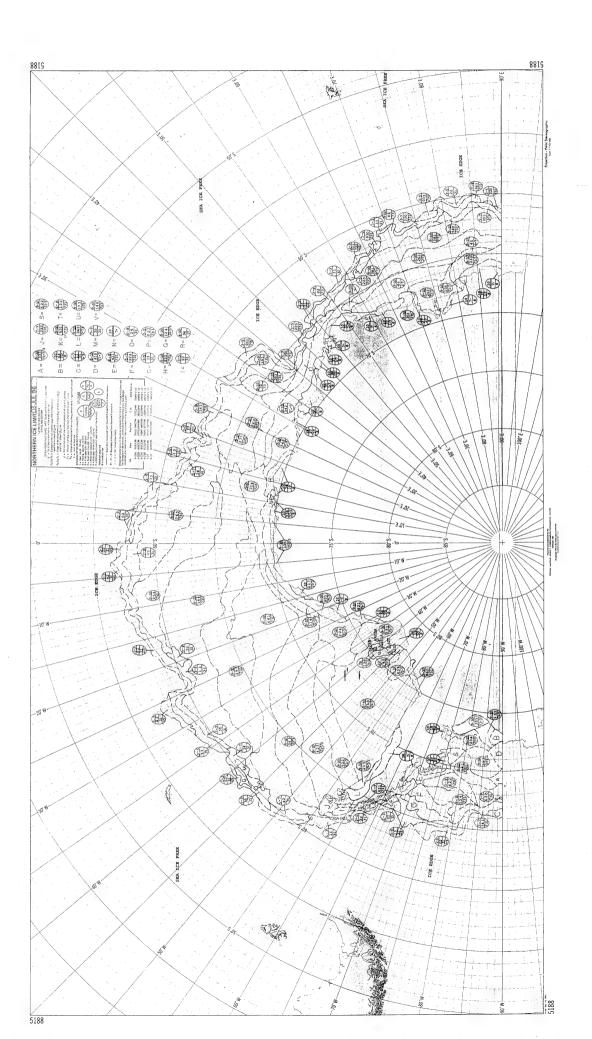


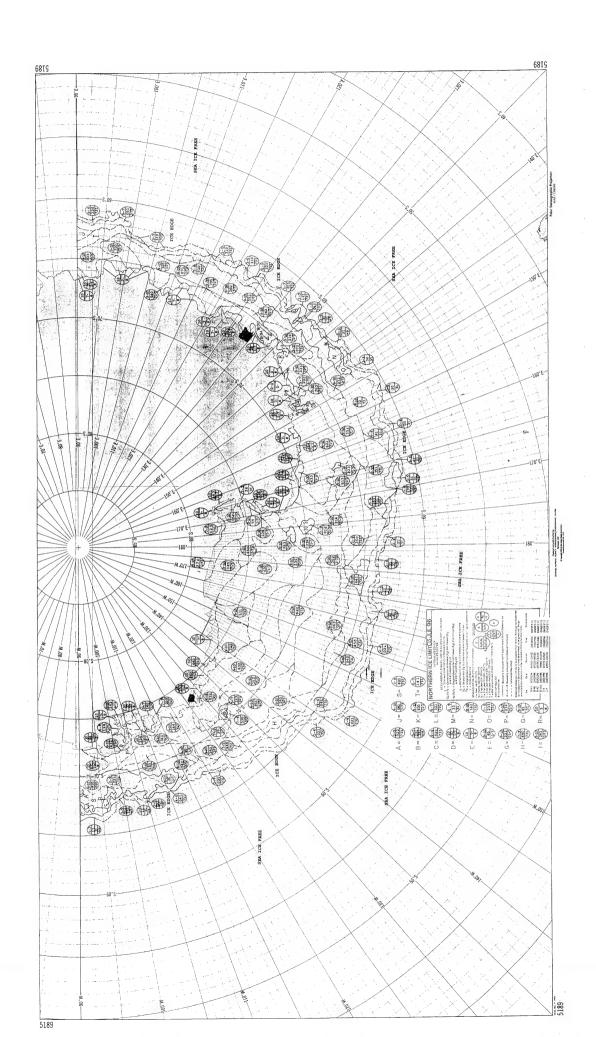


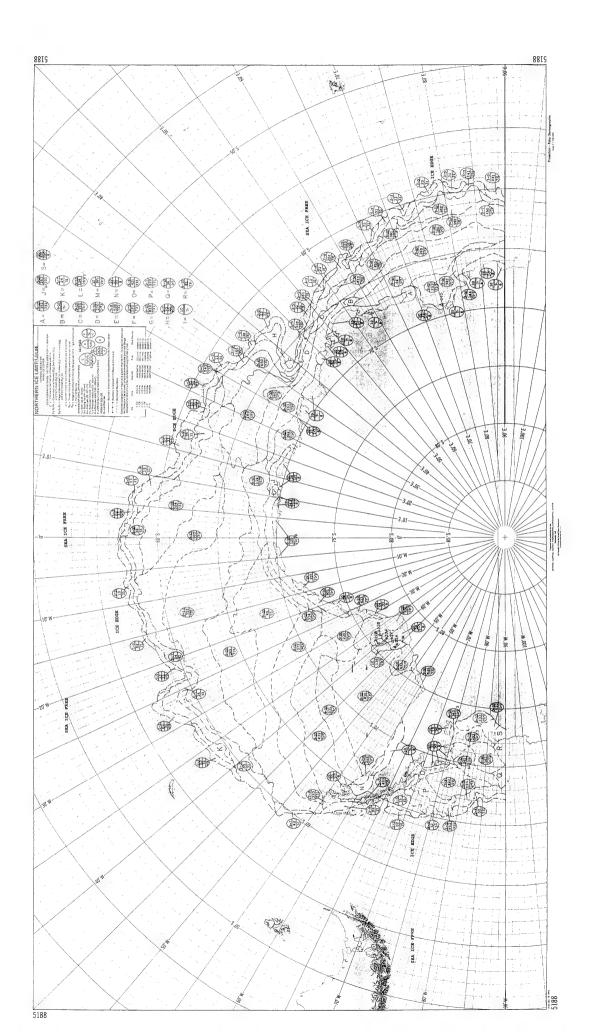


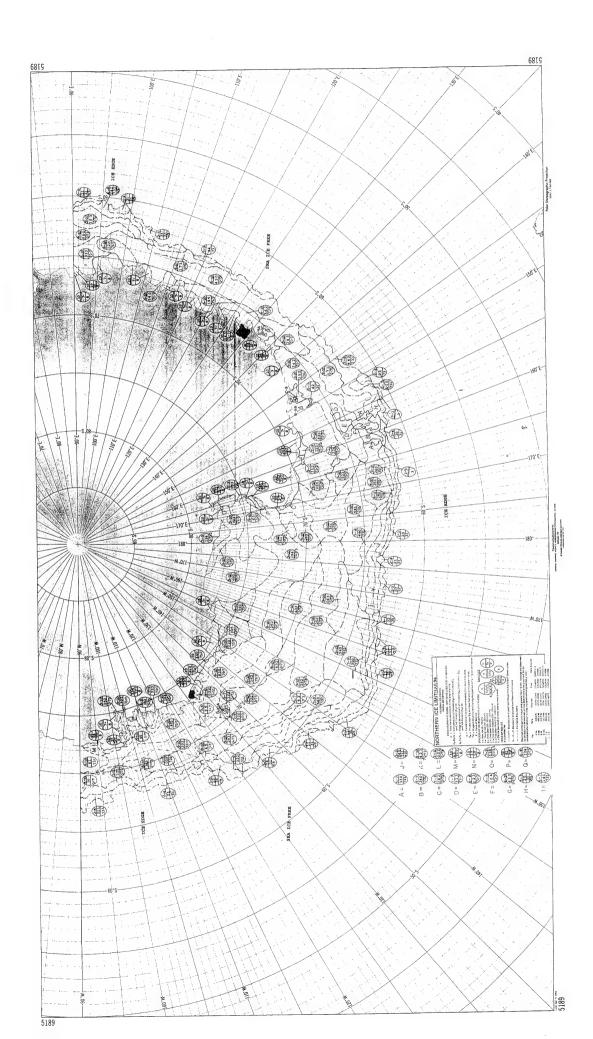


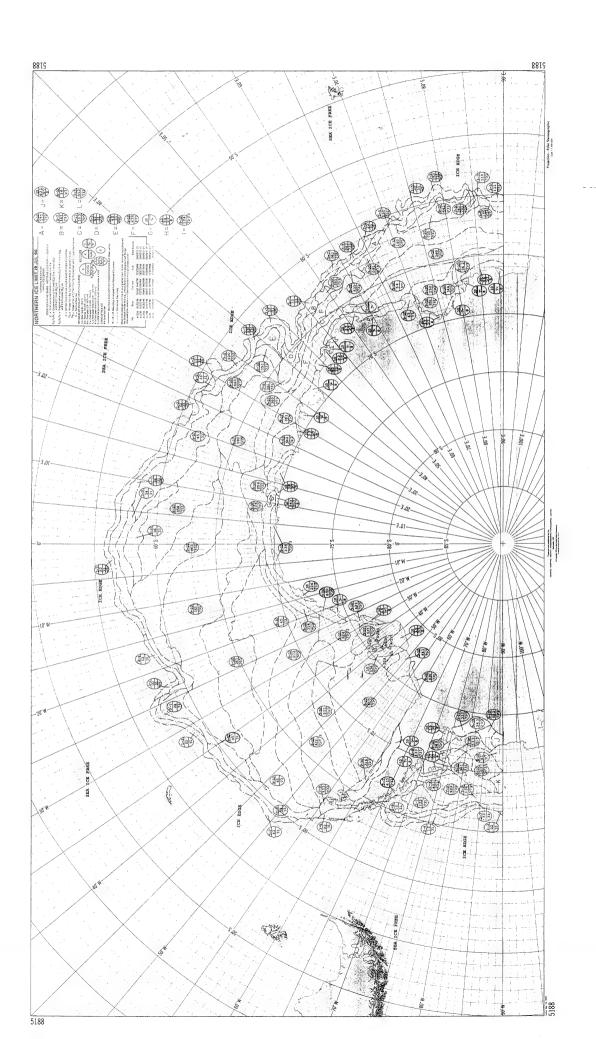


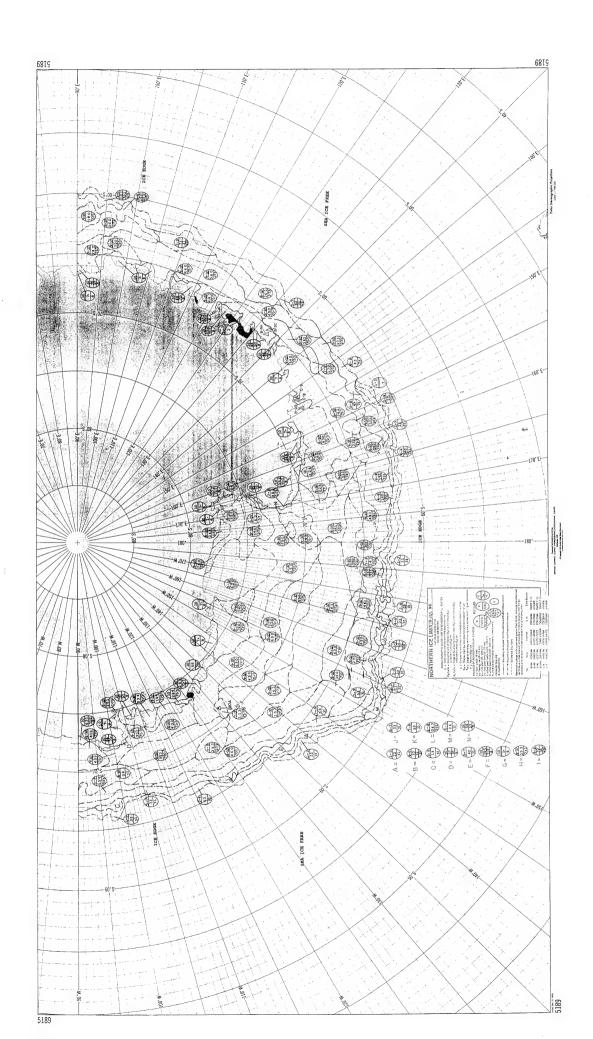


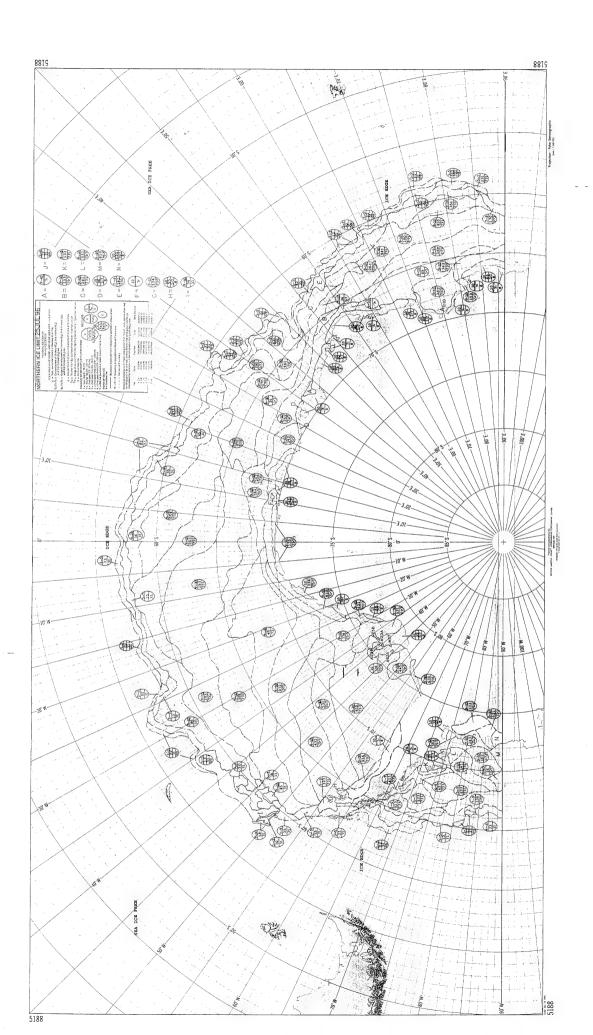


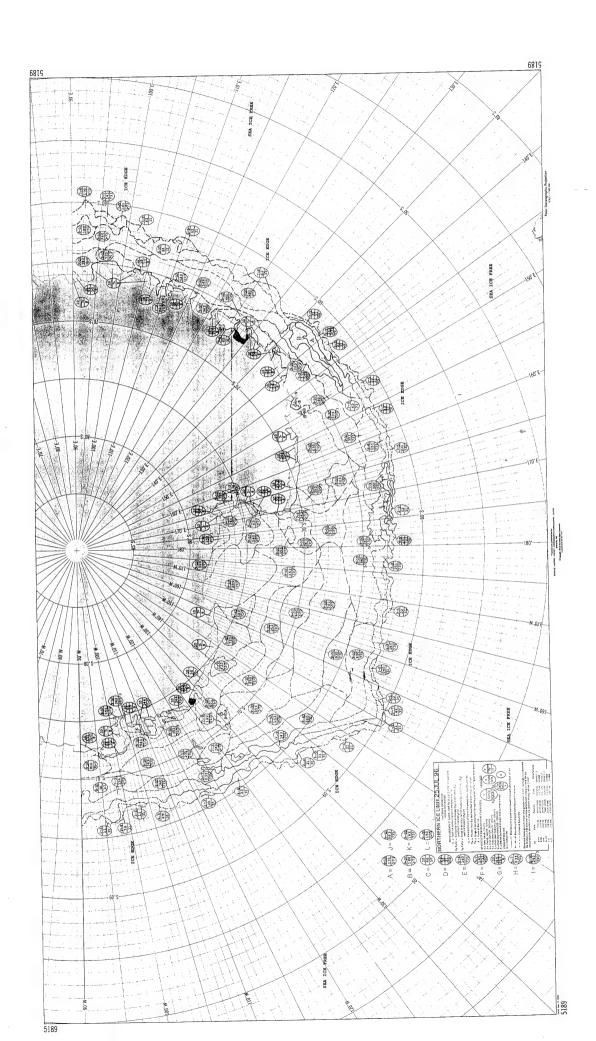


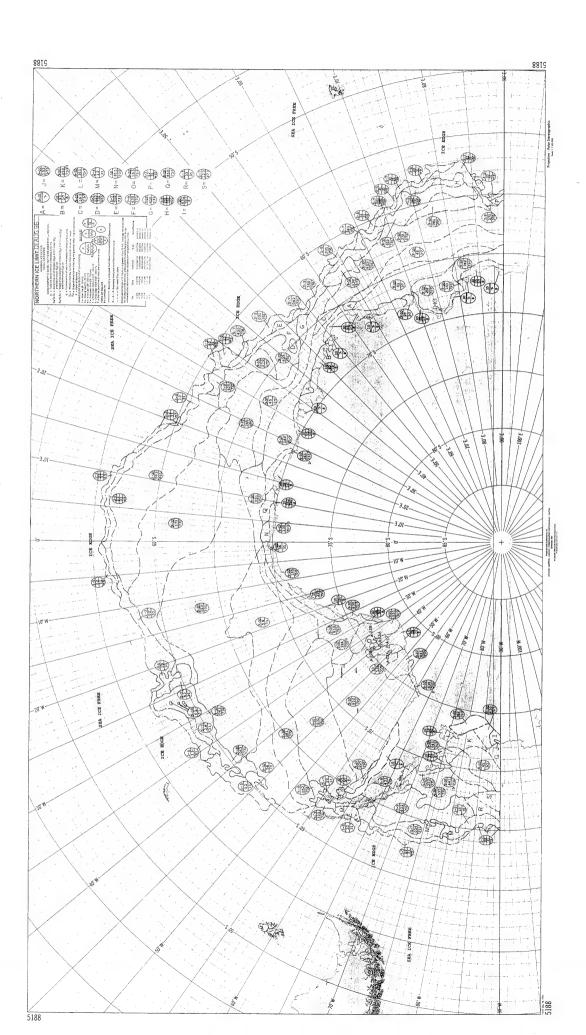


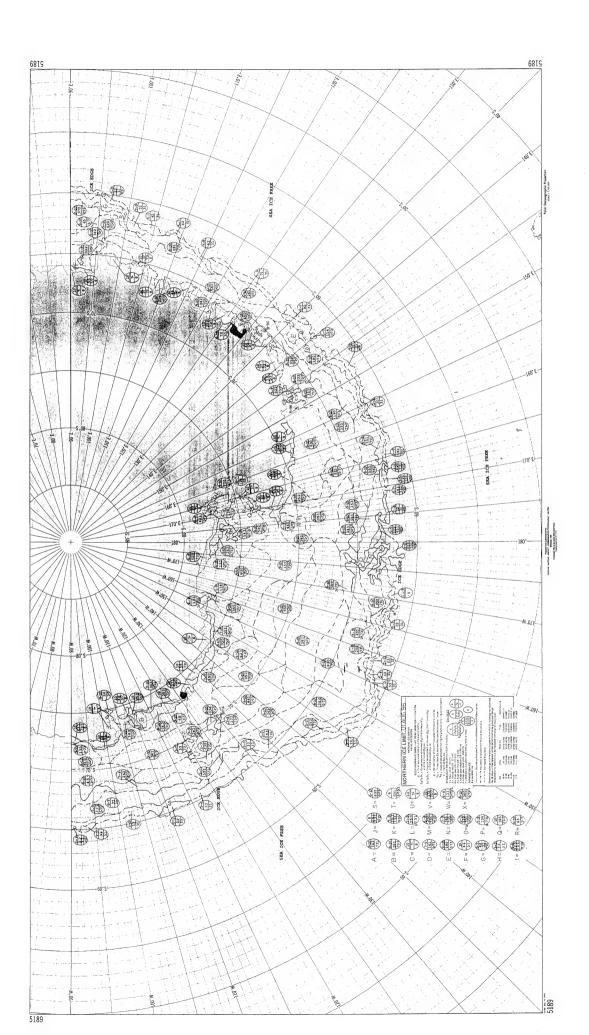


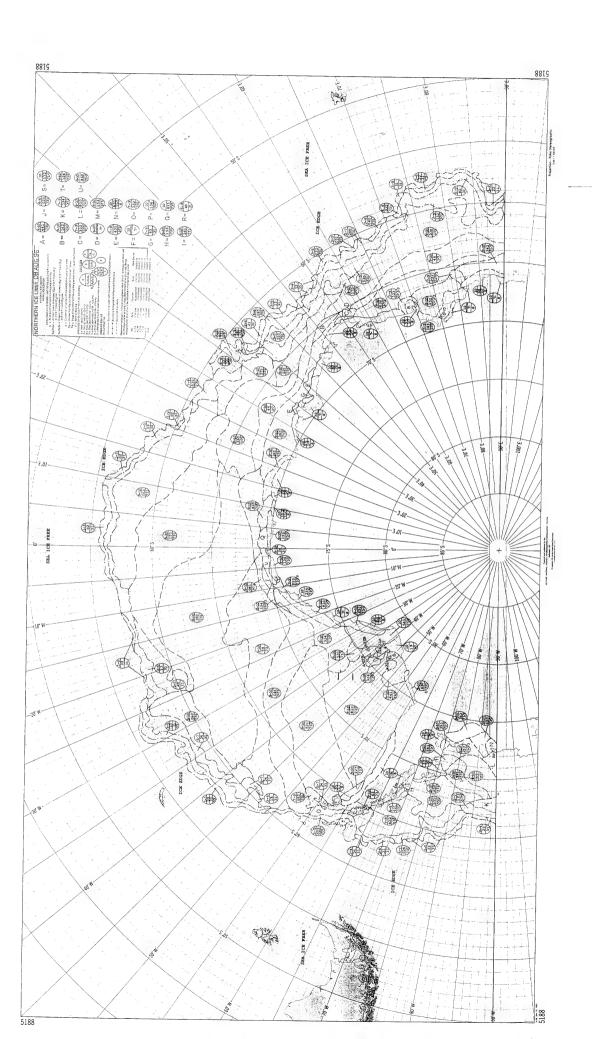


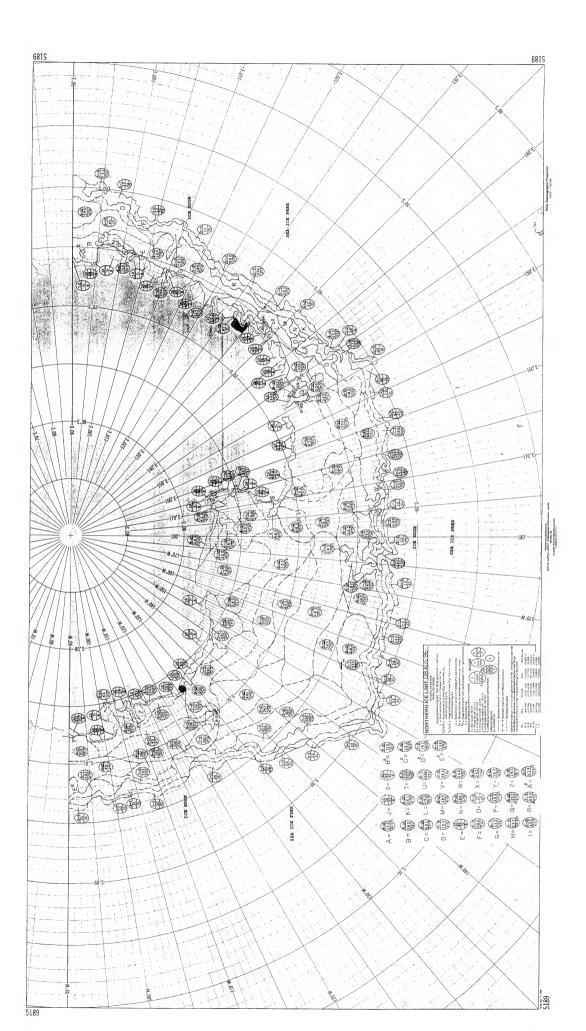


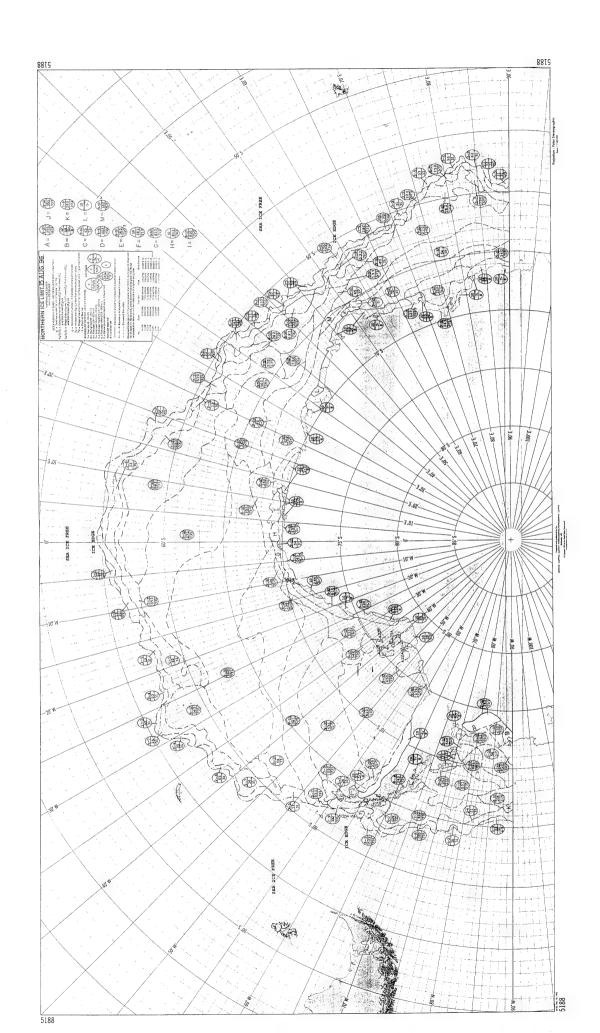


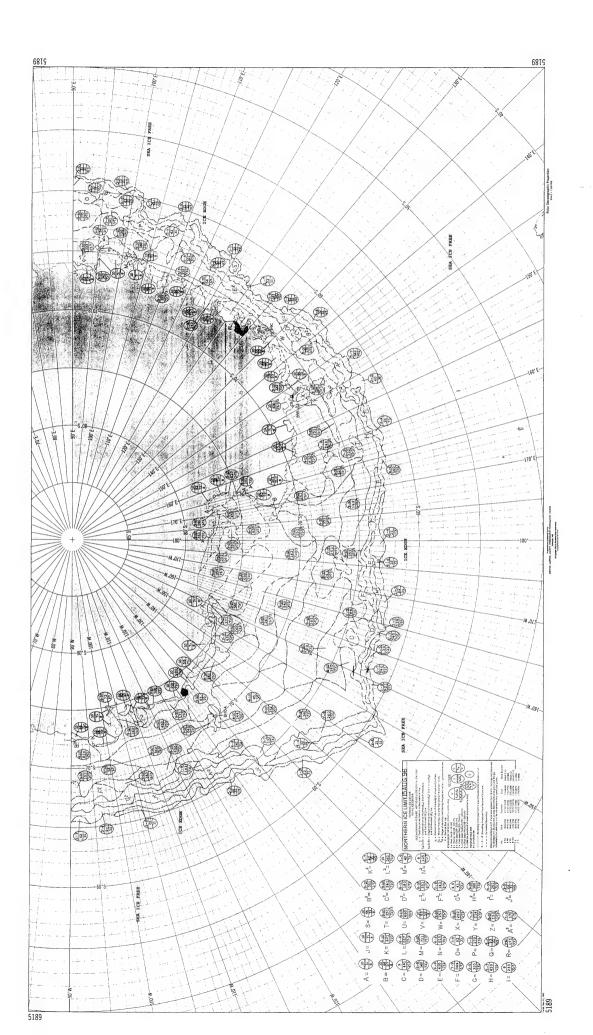


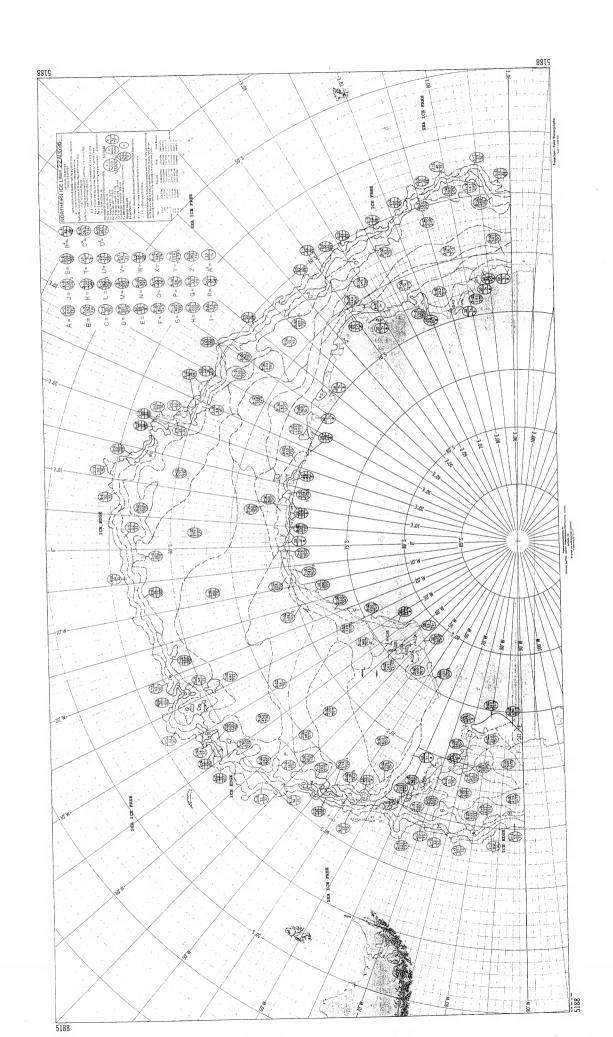


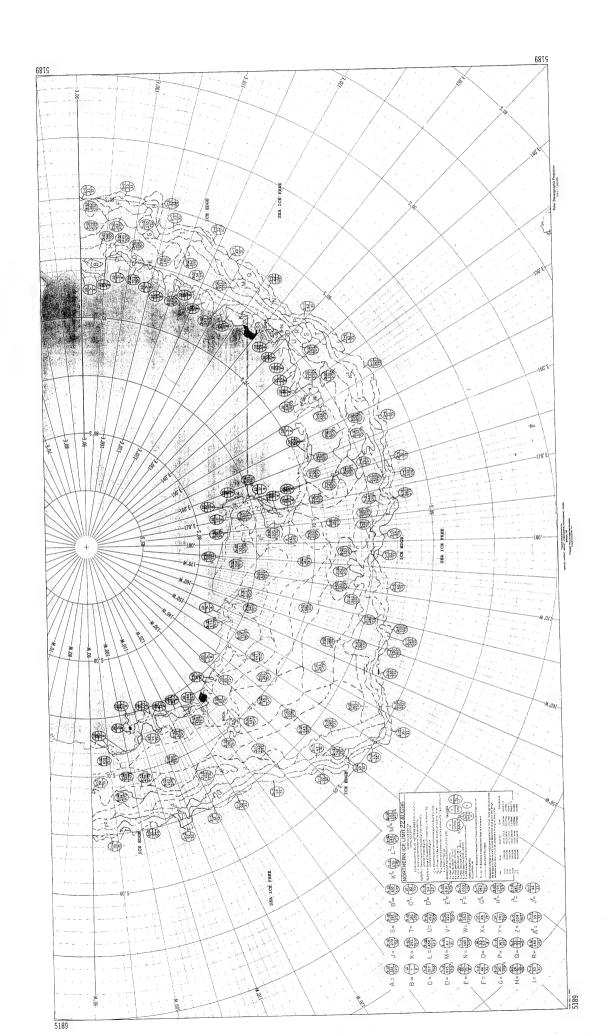


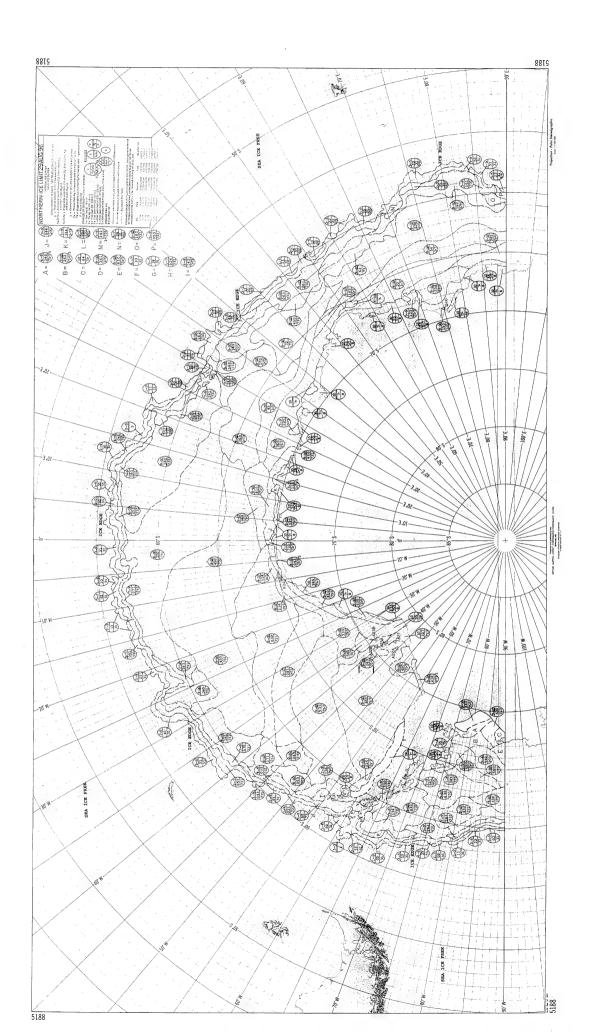


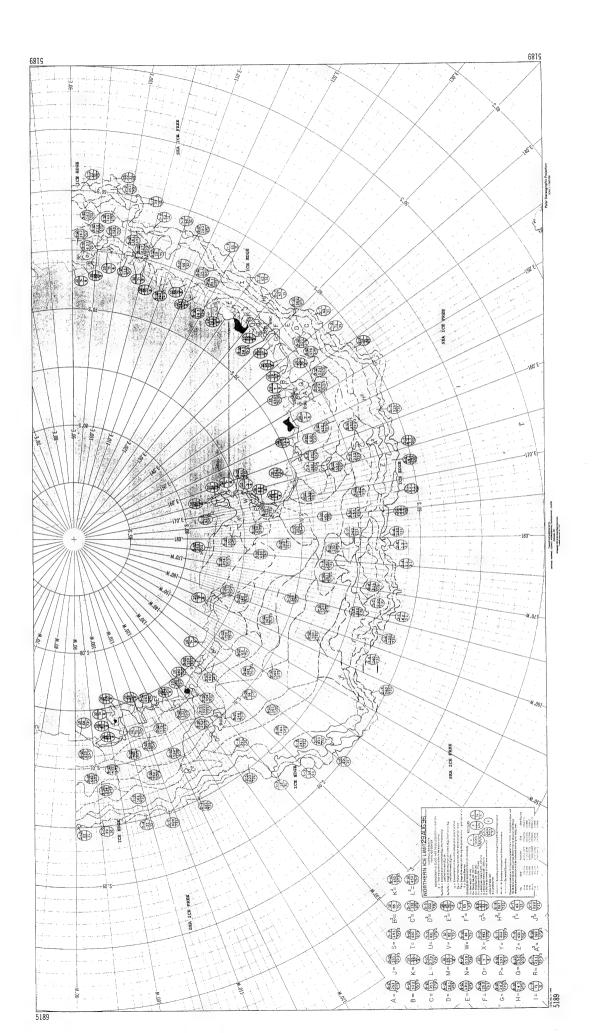


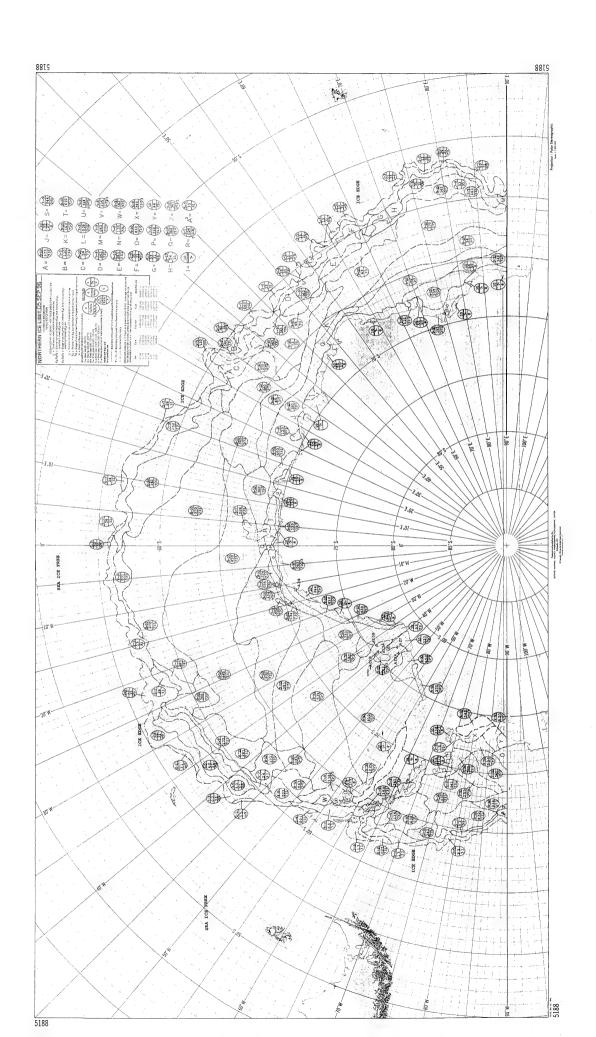


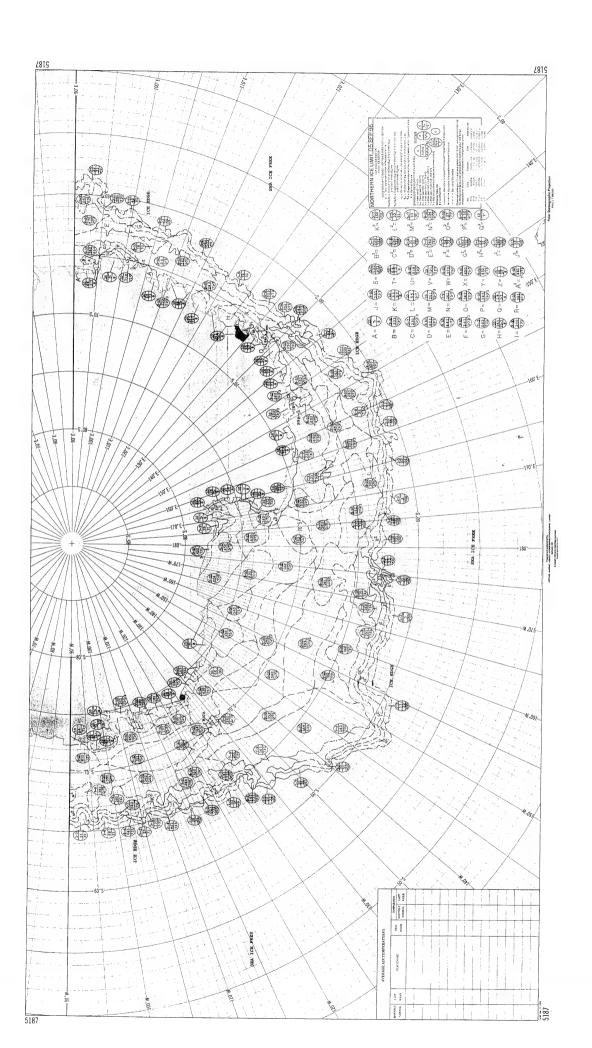


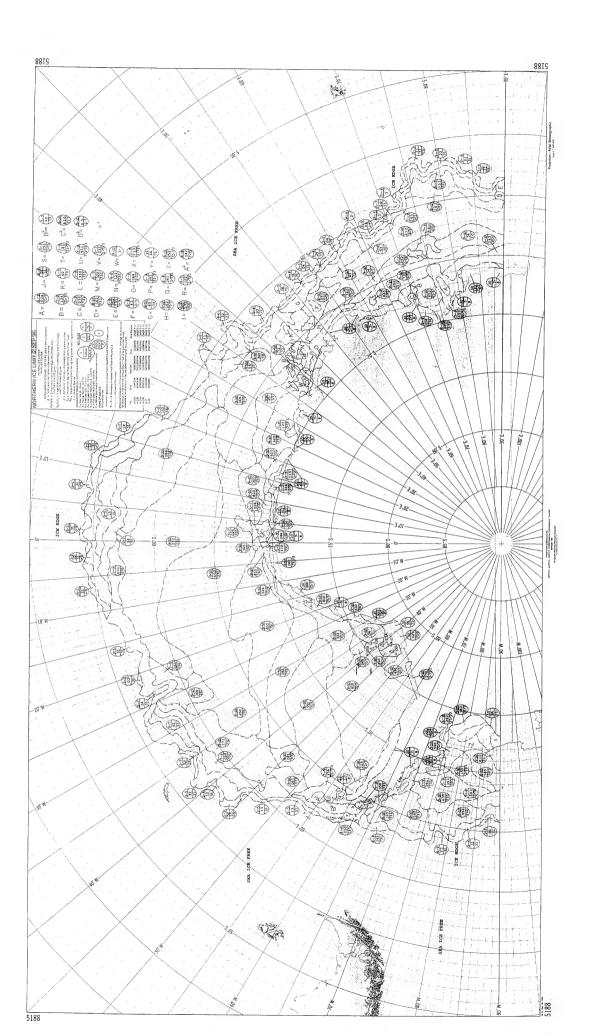


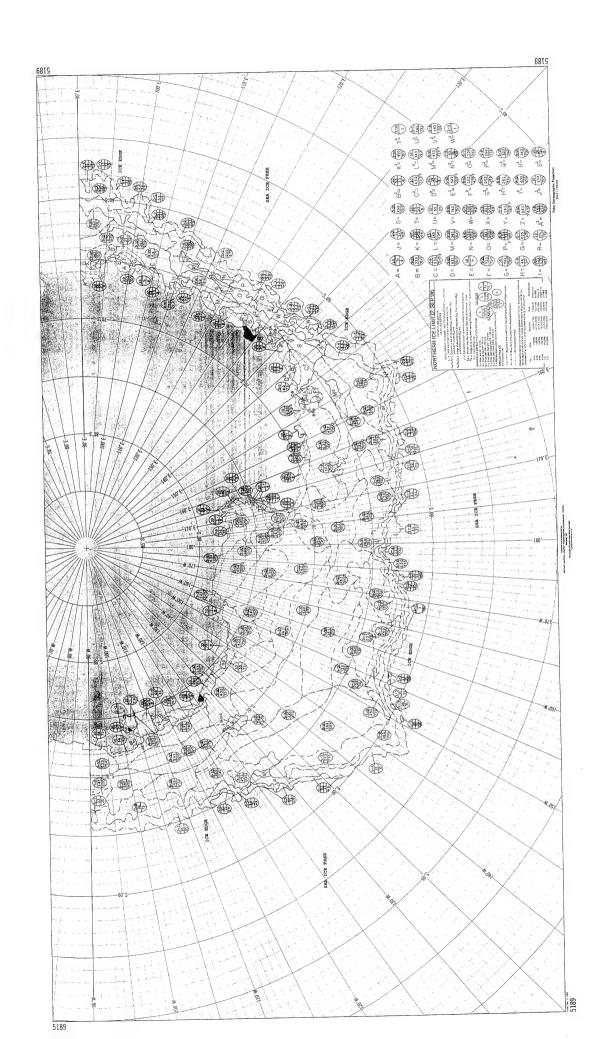


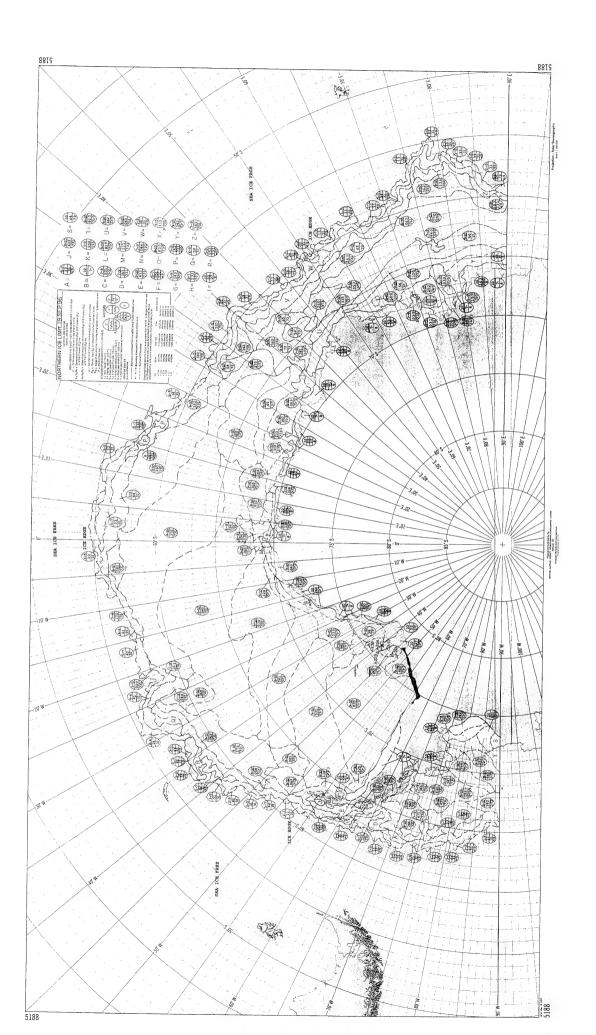


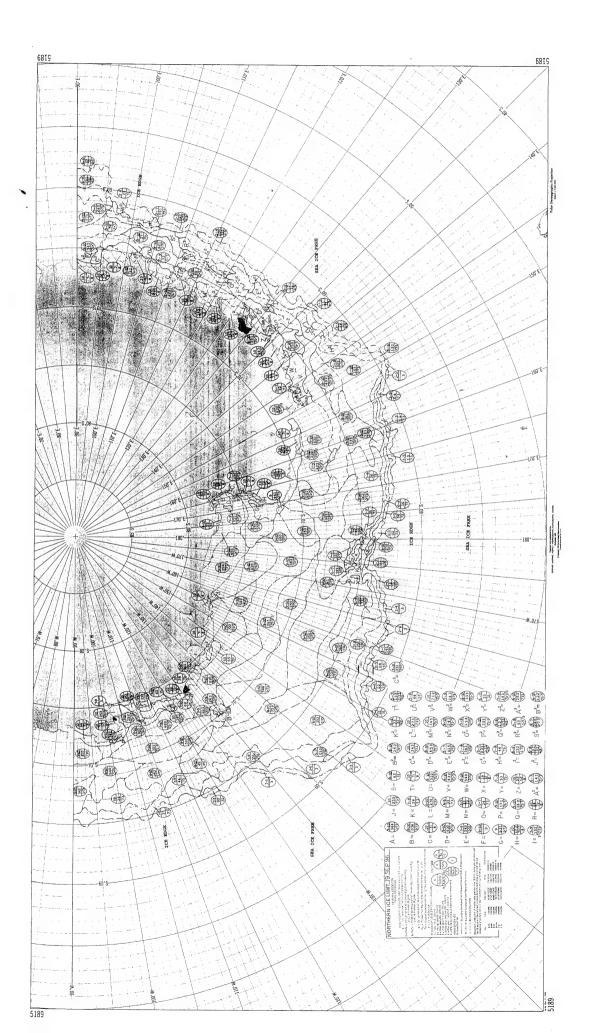


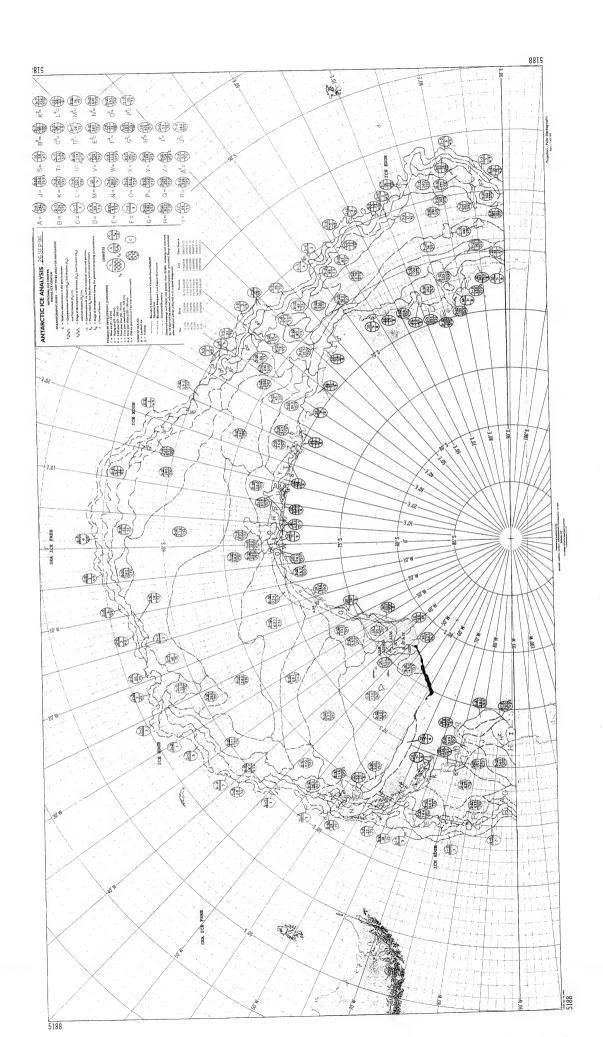


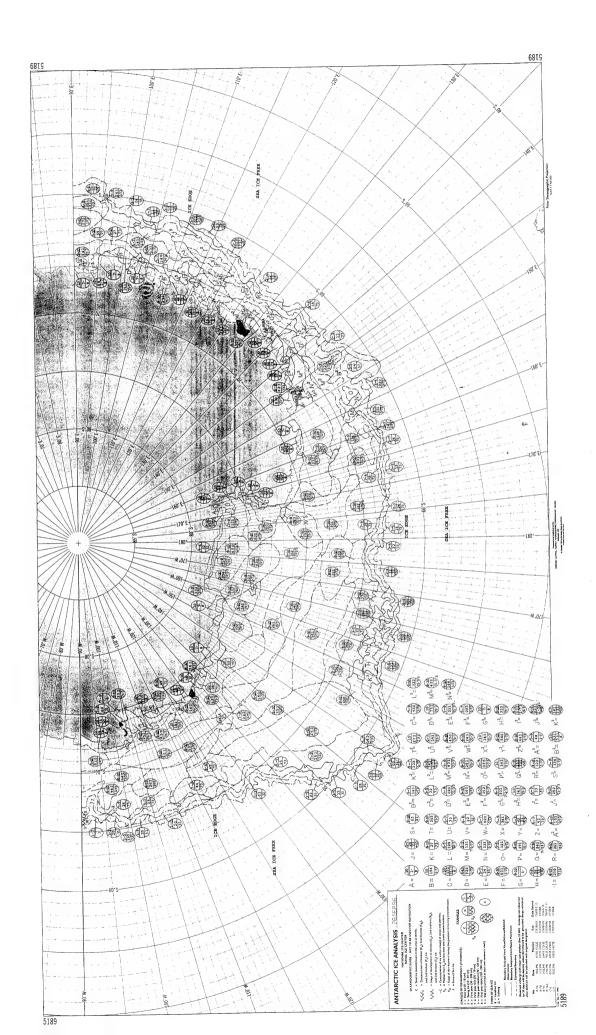


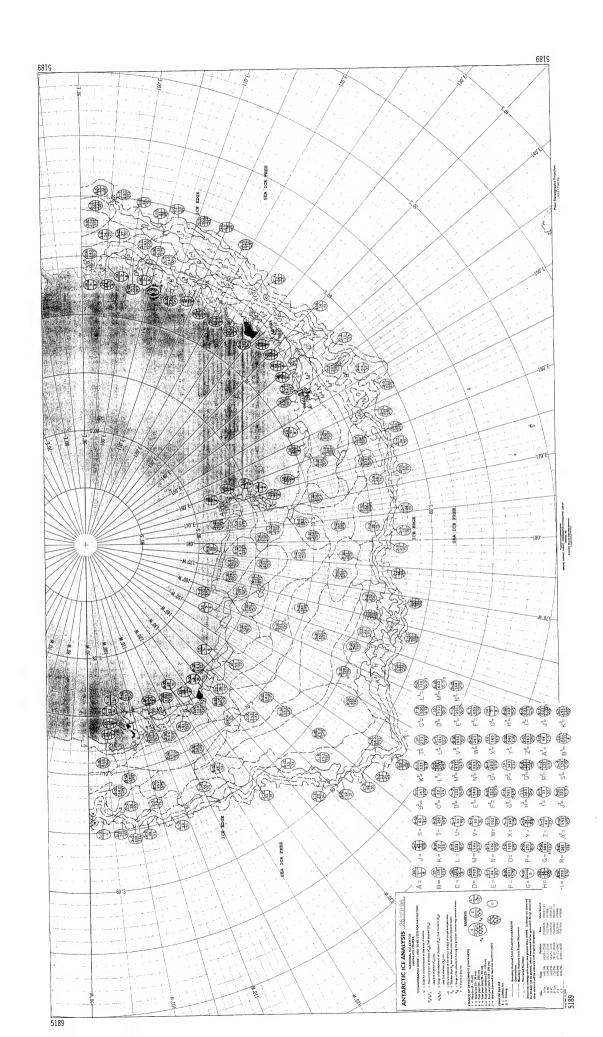


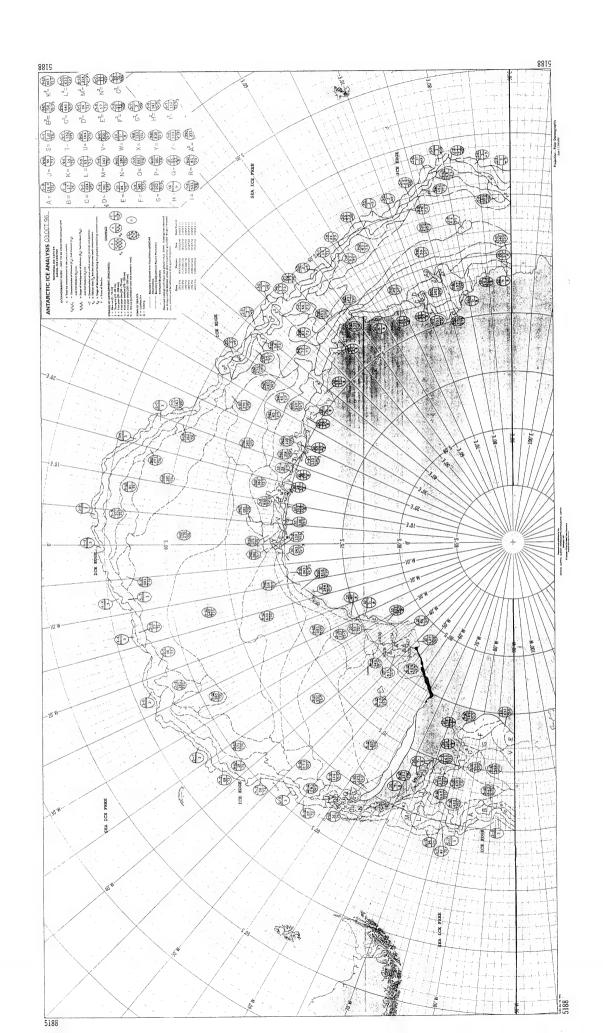


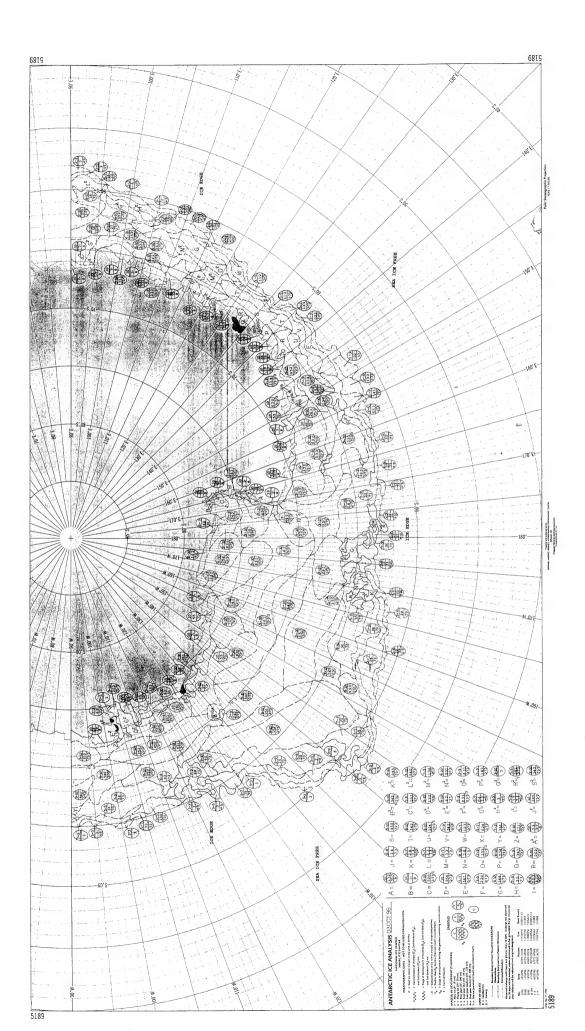


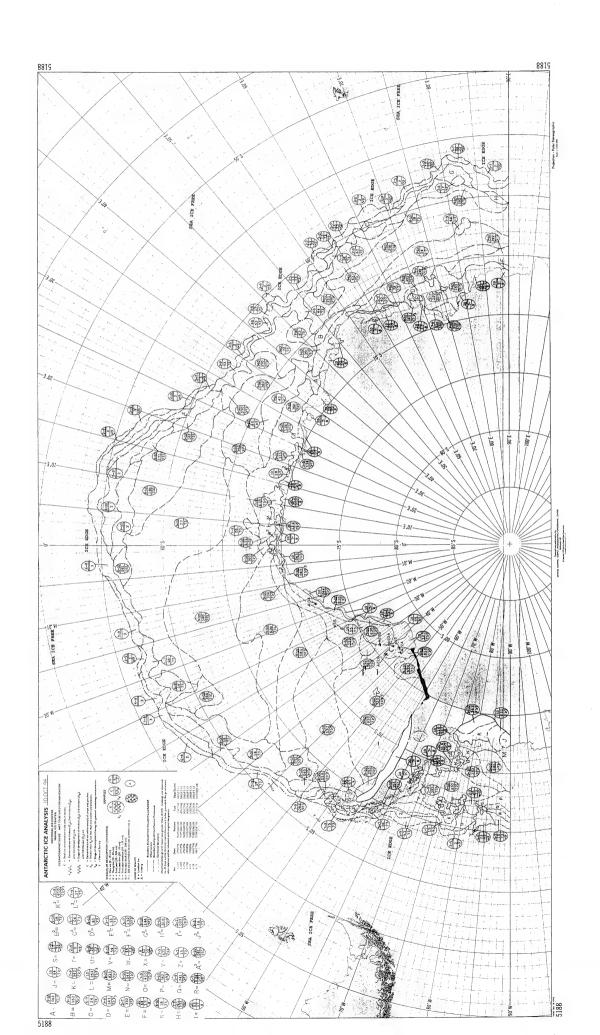


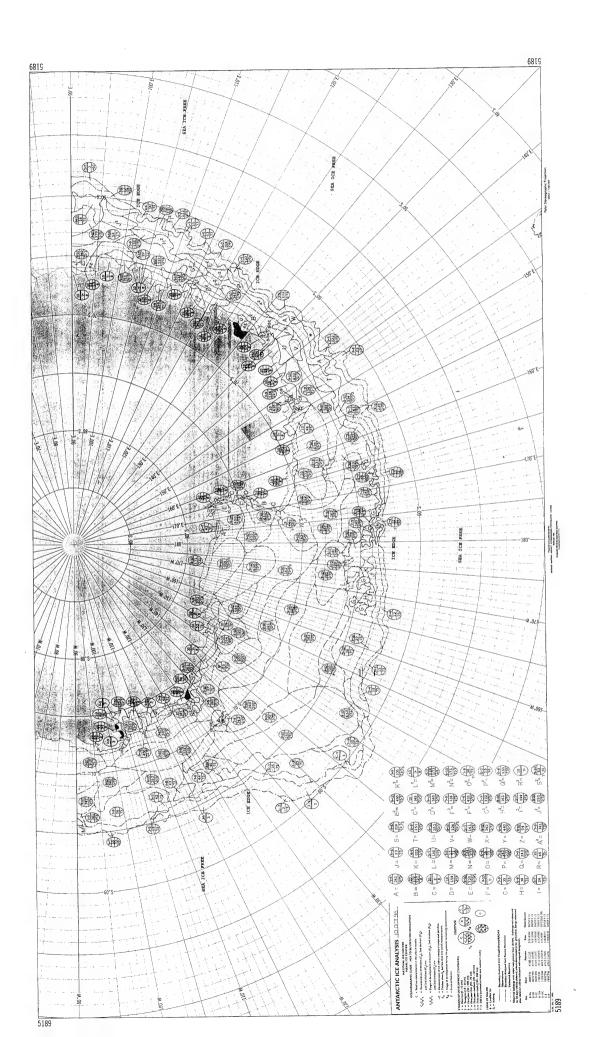


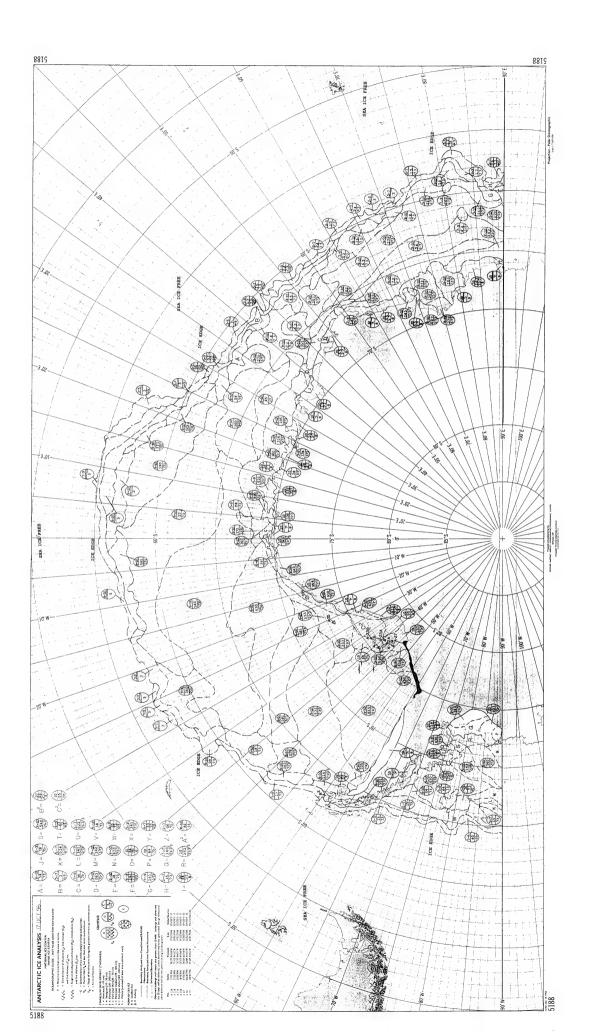


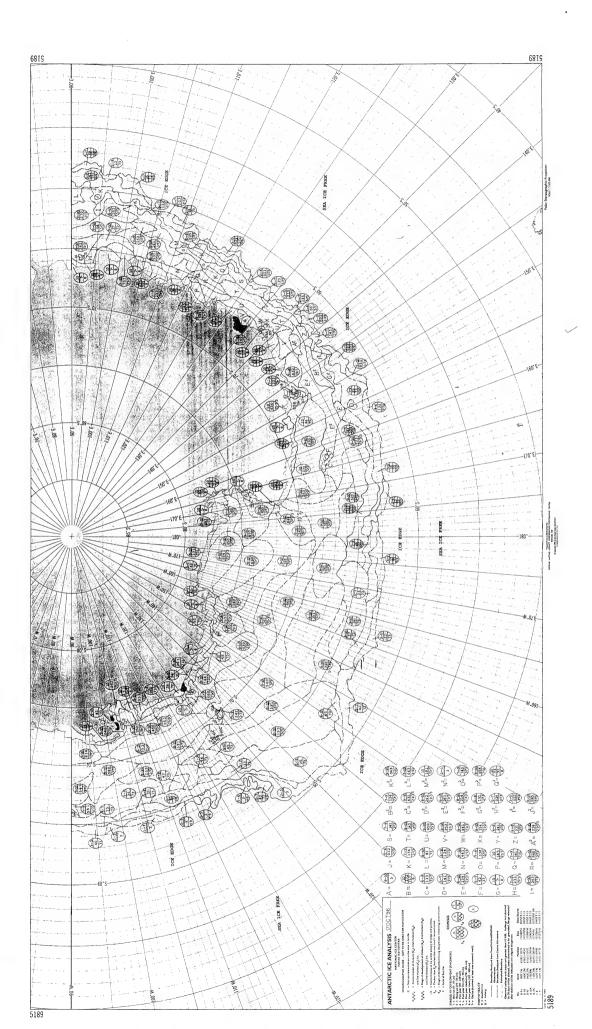


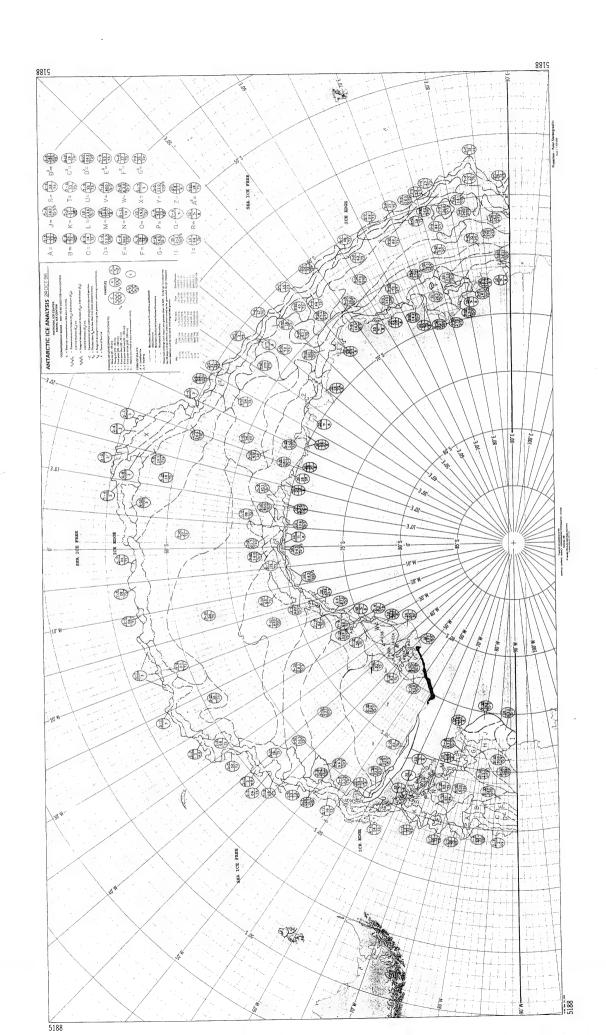


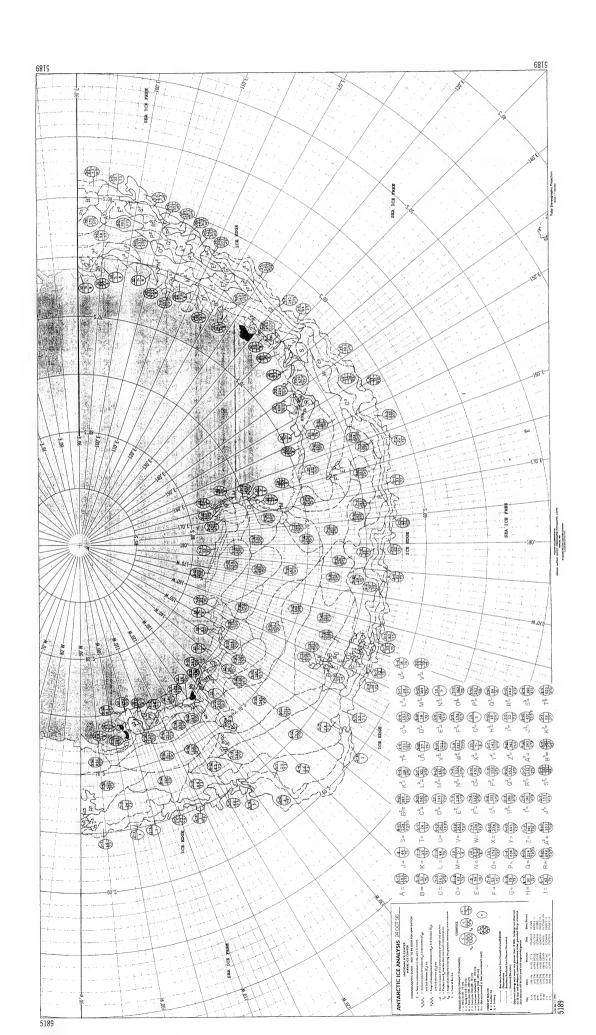


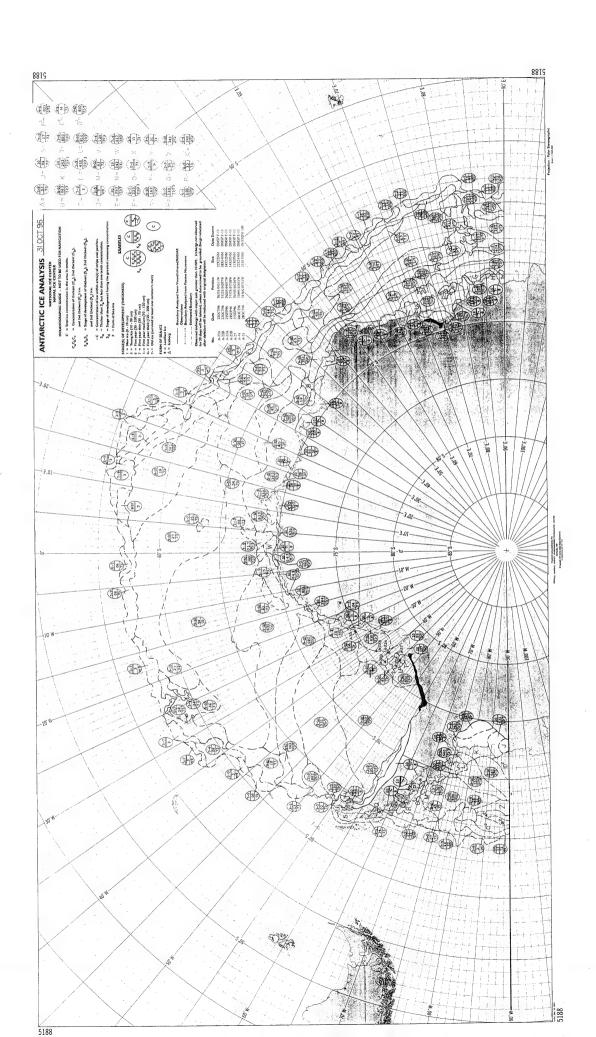


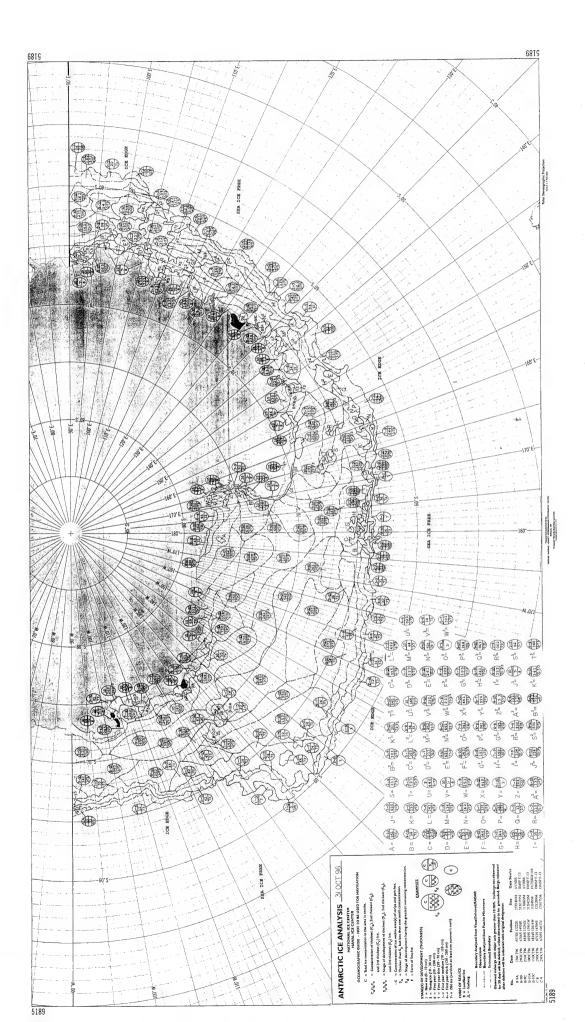


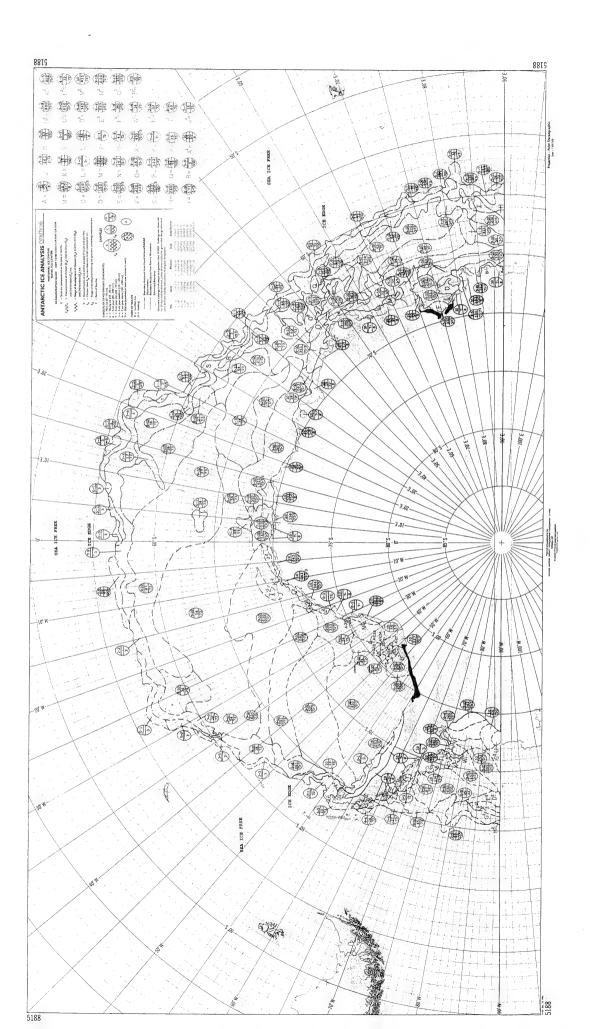


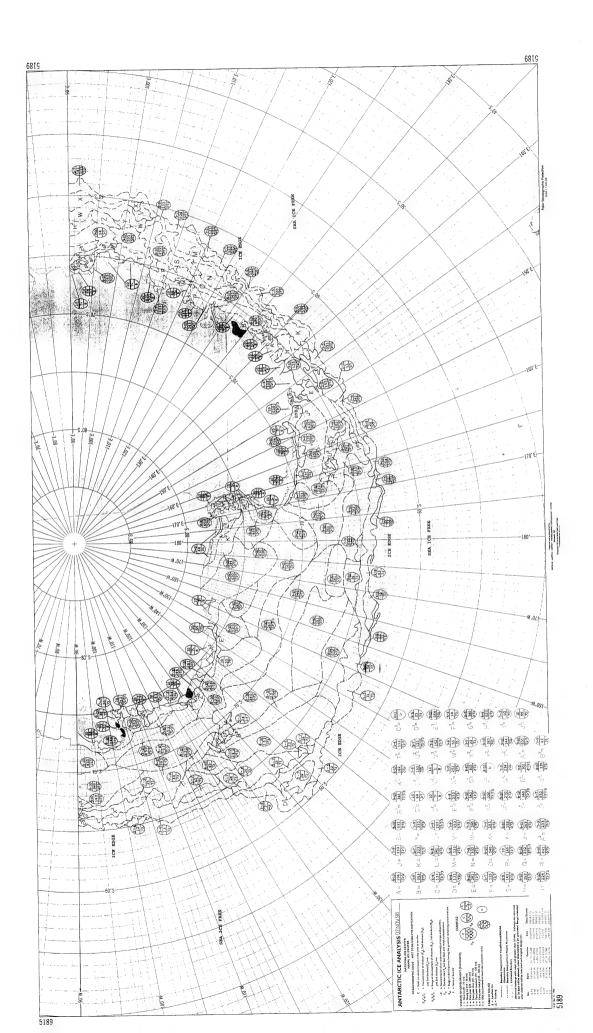


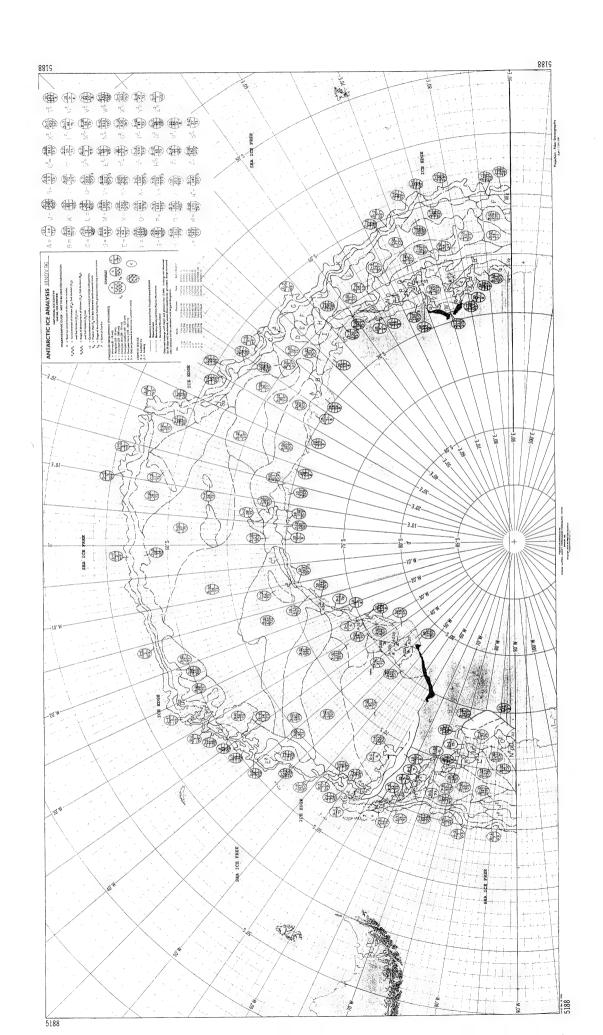


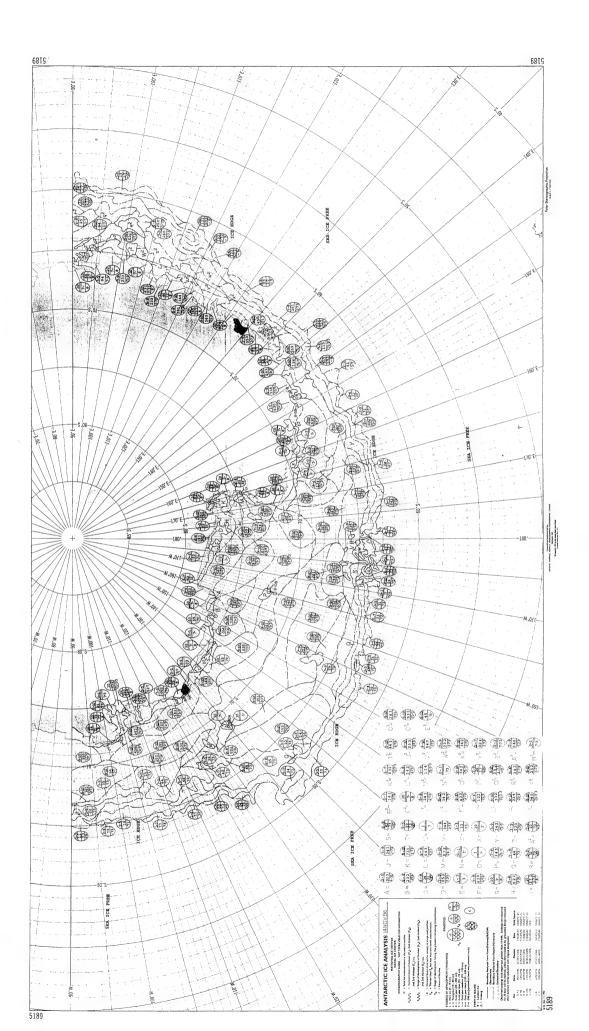


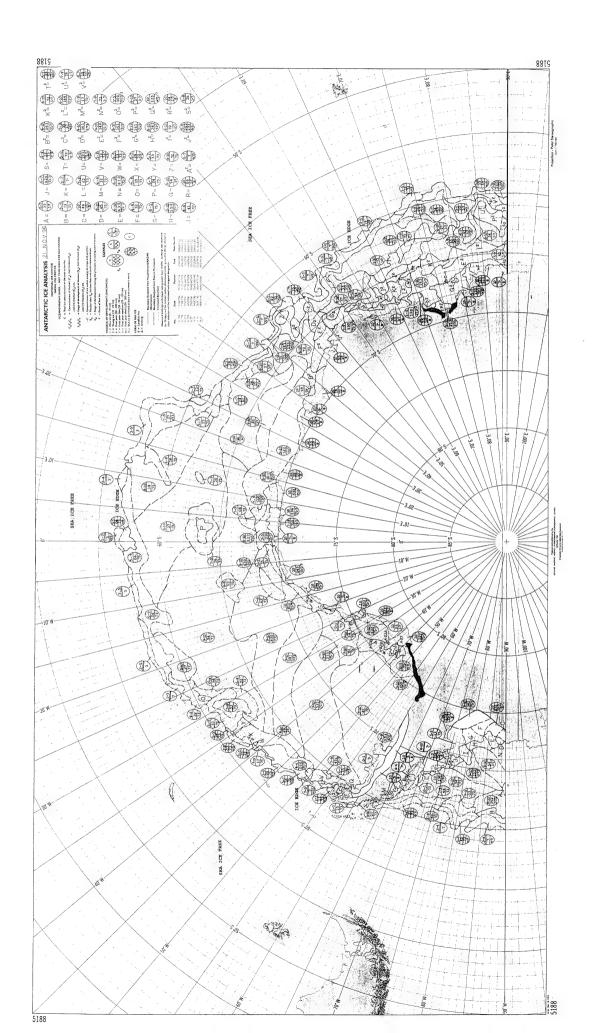


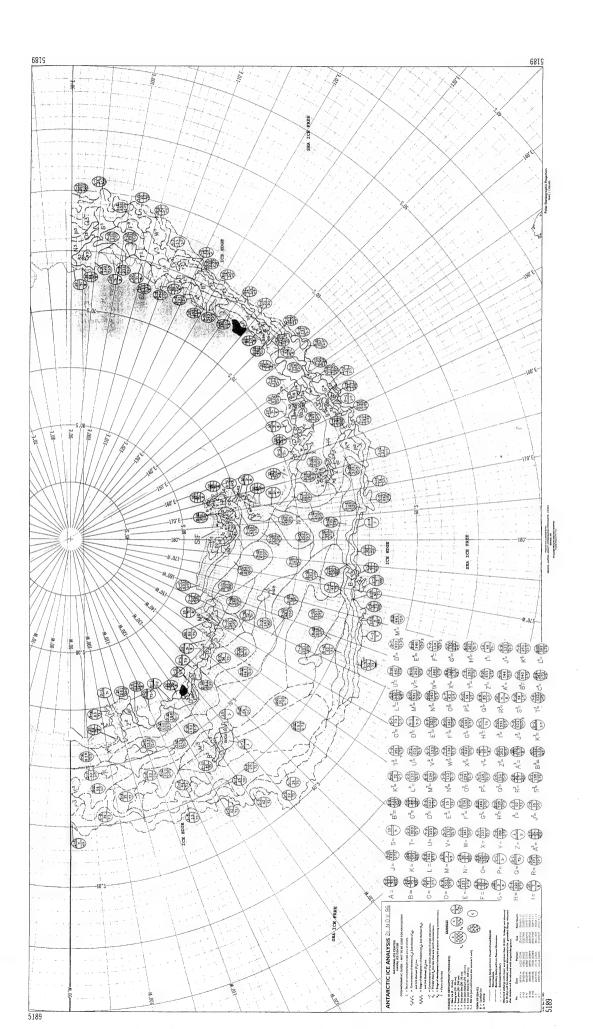


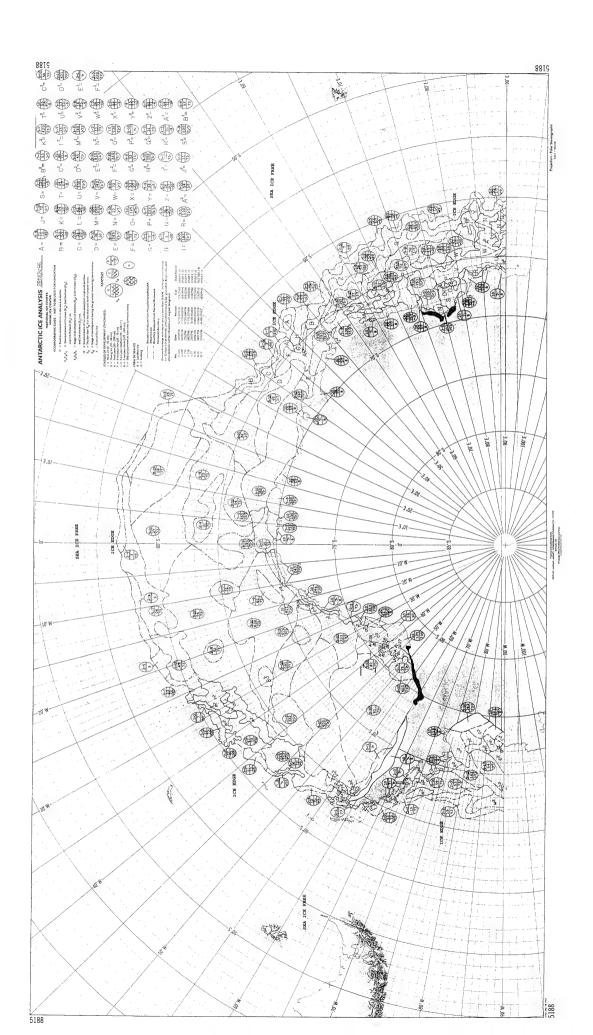


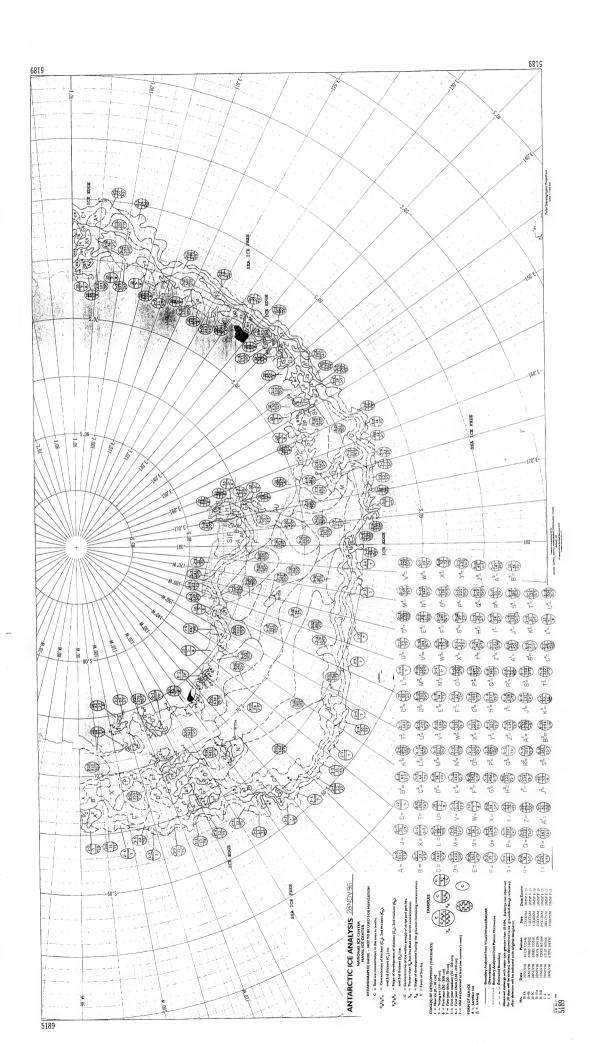


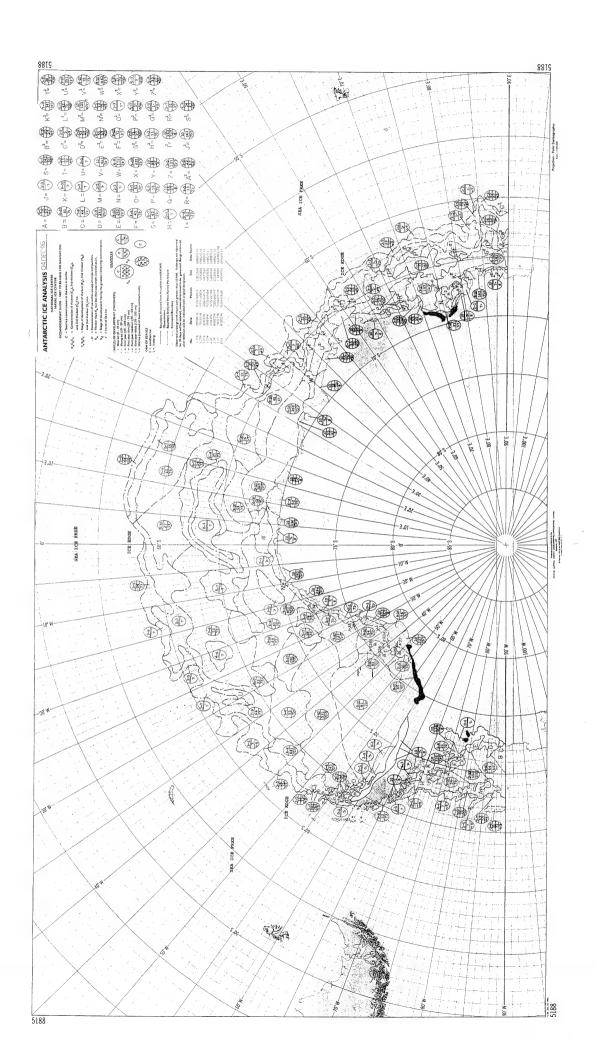


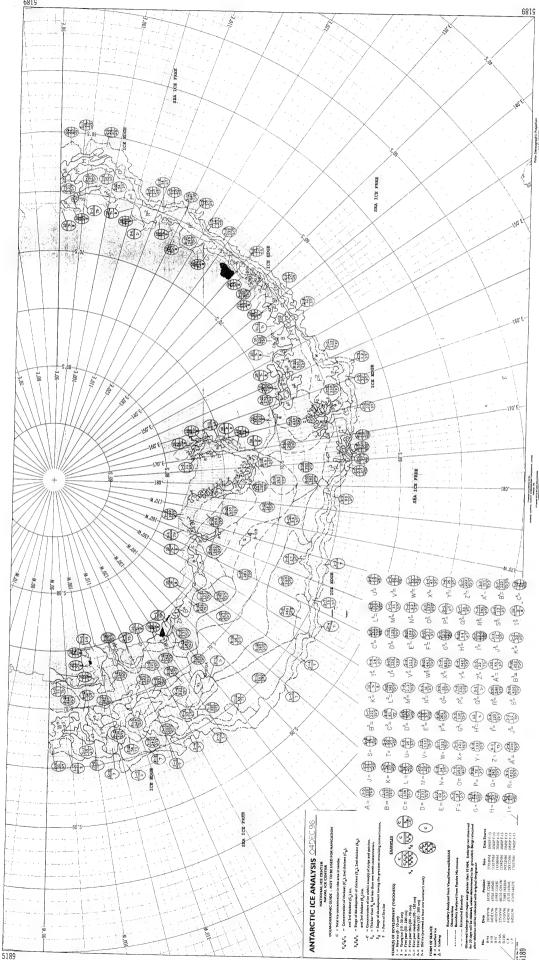












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